401

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gtggtacggc ccctcaagtg cacggtgttc catggggccc agtgggagga cgccttccgc 360
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gasagtngct gaaggggggcc aaacccaagc tgatgtcggc catctccaag accttctgcc 480
cggcccacaa gagctacatc atcgctggtg gtctgggtgg cttcggcctg gagttggcgc 540
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caggctacca ggccaagcag gtccgccggt ggaggcgcca gggcgtacag gtgcaggtgt 660
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tgggcccgtg ggcggcgtct tcaacctggc cgtggtcttg agagatggct tgctggagaa 780
ccagacccca gagttcttcc aggacgtctg caagcccaag tacagcggca ccctgaacct 840
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ttttgaaatt tactgtaact gtcagtgtac acgtctggac cccgtttcat ttttacacca 3120
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aaaaaaaaaa aaaaaaaama mgcgtccgc                                   3209
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402

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<210> 475
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<400> 475
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ttcggacacg agncagagat ggctcccaat gcttcctgcc tctgtgtgca tgtccgttcc 120
gaggaatggg atttaatgac ctttgatgcc aacccatatg acagcgtgaa aaaaatcaaa 180
gaacatgtcc ggtctaagac caaggttcct gtgcaggacc aggttctttt gctgggctcc 240
aagatcttaa agccacggag aagcctctca tcttatggca ttgacaaaga gaagaccatc 300
caccttaccc tgaaagtggt gaagcccagt gatgaggagc tgcccttgtt tcttgtggag 360
tcaggtgatg aggcaaagag gcacctcctc caggtgcgaa ggtccagctc agtggcacaa 420
gtgaaagcaa tgatcgagac taagacgggt ataatccctg agacccagat tgtgacttgc 480
aatggaaaga gactggaaga tgggaagatg atggcagatt acggcatcag aaagggcaac 540
ttactcttcc tggcatstta ttgtattgga gggtgaccac cctgggcatg gggtgttggc 600
aggggtcaaa aagcttattt cttttaatct cttactcaac gaacacatct tctgatgatt 660
tcccaaaatt aatgagaatg agatgagtag agtaagattt gggtgggatg ggtaggatga 720
agtatattgc ccaactctat gtttctttga ttctaacaca attaattaag tgacatgatt 780
tttactaatg tattactgag actagtaaat aaatttttaa ggcaaaatag agc      833
```

```
<210> 476
<211> 1141
<212> DNA
<213> Homo sapiens
```

403

```
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<400> 476
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gaggaacaaa gagcttataa atacattagg acctggaatt cagttgtcga gccaggacgg 120
tgacagcgtt taacaaagct tagagaaacc tccaggagac tgctatcatg gcagagaagc 180
ccaagctcca ctacttcaat gcacggggca gaatggagtc cacccggtgg ctcctggctg 240
cagctggagt agagtttgaa gagaaattta taaaatctgc agaagatttg gacaagttaa 300
gaaatgatgg atatttgatg ttccagcaag tgccaatggt tgagattgat gggatgaagc 360
tggtgcagac cagagccatt ctcaactaca ttgccagcaa atacaacctc tatgggaaag 420
acataaagga gagagccctg attgatatgt atatagaagg tatagcagat ttgggtgaaa 480
tgatcctcct tctgcccgta tgtccacctg aggaaaaaga tgccaagctt gccttgatca 540
aagagaaaat aaaaaatcgc tacttccctg cctttgaaaa agtcttaaag agccatggac 600
aagactacct tgttggcaac aagctgagcc gggctgacat tcatctggtg gaacttctct 660
actacgtcga ggagcttgac tccagtctta tctccagctt ccctctgctg aaggccctga 720
aaaccagaat cagcaacctg cccacagtga agaagtttct acagcctggc agcccaagga 780
agcctcccat ggatgagaaa tctttagaag aagcaaggaa gattttcagg ttttaataac 840
gcagtcatgg aggccaagaa cttgcaatac caatgttcta aagttttgca acaataaagt 900
actttaccta agtgttgatt gtgcctgttg tgaagctaat gaactctttc aaattatatg 960
ctaattaaat aatacaactc ctattcgctg acttagttaa aattgatttg ttttcattag 1020
gatctgatgt gaattcagat ttccaatctt ctcctagcca accatttttcc tggaattaaa 1080
aattcagtaa aaaaggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 1140
g                                                                1141

<210> 477
<211> 1102
<212> DNA
<213> Homo sapiens

<400> 477
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cagagtggaa gcaggtgtga gagggtccag cagaaggaaa catggctgcc aaagtgtttg 120
agtccattgg caagtttggc ctggccttag ctgttgcagg aggcgtggtg aactctgcct 180
tatataatgt ggatgctggg cacagagctg tcatctttga ccgattccgt ggagtgcagg 240
acattgtggt aggggaaggg actcattttc tcatcccgtg ggtacagaaa ccaattatct 300
ttgactgccg ttctcgacca cgtaatgtgc cagtcatcac tggtagcaaa gatttacaga 360
atgtcaacat cacactgcgc atcctcttcc ggcctgtcgc cagccagctt cctcgcatct 420
tcaccagcat cggagaggac tatgatgagc gtgtgctgcc gtccatcaca actgagatcc 480
tcaagtcagt ggtggctcgc tttgatgctg gagaactaat cacccagaga gagctggtct 540
ccaggcaggt gagcgacgac cttacagagc gagccgccac ctttgggctc atcctggatg 600
acgtgtcctt gacacatctg accttcggga aggagttcac agaagcggtg gaagccaaac 660
aggtggctca gcaggaagca gagagggcca gattgtggt ggaaaaggct gagcaacaga 720
aaaaggcggc catcatctct gctgagggcg actccaaggc agctgagctg attgccaact 780
cactggccac tgcaggggat ggcctgatcg agctgcgcaa gctggaagct gcagaggaca 840
tcgcgtacca gctctcacgc tctcggaaca tcacctacct gccagcgggg cagtccgtgc 900
tcctccagct gccccagtga gggcccaccc tgcctgcacc tccgcgggct gactggccac 960
agccccgatg attcttaaca cagccttcct tctgctccca ccccagaaat cactgtgaaa 1020
```

404

```
tttcatgatt ggcttaaagt gaaggaaata aaggtaaaat cacttcagaa aaaaaaaaaa 1080
aaaaaaaacc ccggggggggg gc                                        1102
```

<210> 478
<211> 4201
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4077)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4186)
<223> n equals a,t,g, or c

<400> 478
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gcggacgcgt gggcggacgc gtgggtscgg acgcgtgggc tcgcggcgcc gcctcctgct 60
cctcccgctg ctgctgccgc tgccgccctg agtcactgcc tgcgcagctc cggccgcctg 120
gctccccata ctagtcgccg atatttggag ttcttacaac atggcagaca ttgacaacaa 180
agaacagtct gaacttgatc aagatttgga tgatgttgaa gaagtagaag aagaggaaac 240
tggtgaagaa acaaaactca aagcacgtca gctaactgtt cagatgatgc aaaatcctca 300
gattcttgca gcccttcaag aaagacttga tggtctggta gaaacaccaa caggatacat 360
tgaaagcctg cctagggtag ttaaaagacg agtgaatgct ctcaaaaacc tgcaagttaa 420
atgtgcacag atagaagcca aattctatga ggaagttcay gatcttgaaa ggaagtatgc 480
tgttctctat cagcctctat ttgataagcg atttgaaatt attaatgcaa tttatgaacc 540
tacggaagaa gaatgtgaat ggaaaccaga tgaagaagat gagatttcgg aggaattgaa 600
agaaaaggcc aagattgaag atgagaaaaa ggatgaagaa aaagaagacc ccaaaggaat 660
tcctgaattt tggttaactg tttttaagaa tgttgacttg ctcagtgata tggttcagga 720
acacgatgaa cctattctga agcacttgaa agatattaaa gtgaagttct cagatgctgg 780
ccagcctatg agttttgtct tagaatttca ctttgaaccc aatgaatatt ttacaaatga 840
agtgctgaca aagacataca ggatgaggtc agaaccagat gattctgatc ccttttcttt 900
tgatggacca gaaattatgg gttgtacagg gtgccagata gattggaaaa aaggaaagaa 960
tgtcactttg aaaactatta agaagaagca gaaacacaag ggacgtggga cagttcgtac 1020
tgtgactaaa acagtttcca atgactcttt ctttaacttt tttgcccctc ctgaagttcc 1080
tgagagtgga gatctggatg atgatgctga agctatcctt gctgcagact cgaaattgg 1140
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aataaaagct gtctggatgt ctcaagttgt gttgggaaat ttttcatatt agaagctttc 1380
aaattaaatt gtattatcat caaagtctgt aatcatgaaa atctgttgat ccgtagagta 1440
acttgtatta aattttccct acattatgag ccagtttacc tactatgtac atacttcatg 1500
gatgcatttt gaactttaat ataggaaggg gaagaagaag gagatgagga aaatgatcca 1560
gactatgacc caaagaagga tcaaaacca gcagagtgca agcagcagtg aagcaggatg 1620
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tatgtggcct tgaggataac ctgcactggt ctaccttctg cttccctgga aaggatgaat 1680
ttacatcatt tgacaagcct attttcaagt tatttgttgt ttgtttgctt gtttttgttt 1740
ttgcagctaa aataaaaatt tcaaatacaa ttttagttct tacaagataa tgtcttaatt 1800
ttgtaccaat tcaggtagaa gtagaggcct accttgaatt aagggttata ctcagttttt 1860
aacacattgt tgaagaaaag gtaccagctt tggaacgaga tgctatacta ataagcaagt 1920
gtaaaaaaaa aaaaaaaga ggaagaaaat cttaagtgat tgatgctgtt ttcttttaaa 1980
aaaaaaaaaa taaaattcat tttctttggg ttagagctag agagaaggcc ccaagcttct 2040
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aagatttgtt ttcagatatt tttgatgact gtattgtaaa tactacaggg atagcactat 2460
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ctttattttc aaaatgattt cctttgcttt gattagacac tatgtgcttt ttttttttaa 2880
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cagcccatgc acactgccaa gtaagtctca ttttttccctg ttagaaatgg tgaaatatca 3540
tataatcact tataaagaaa actgatatga aaaaatttta gagttgtttg ctttatggtc 3600
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tattagcatc actattttag attgcaaaaa taccttaatt gtgtggaact ggcttgtaga 3780
gtggtactta agaaaaatgg gattctacct ctatttctgt tttagcacac ttaatcagga 3840
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taatattcaa atatttgaat gctttggttt cagggattgg tttaaaattg gagtccnttt 4080
tttatggggt tagtcttaca aaaatttaag cctttatatt tttgacttta aatcaaaacc 4140
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c                                                                    4201
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<210> 479
<211> 787
<212> DNA
<213> Homo sapiens

<220>

406

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<221> misc feature
<222> (780)
<223> n equals a,t,g, or c

<400> 479
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ccggatgata gtgctcaggt taatgccagt gggagggcgg cgcccaatag taacttcctt 120
tggaggttgt agtaccgccc ccagagccaa ttttccactt ccgcktccgg cgctgcggca 180
gtccagatca aaaatggcgg tagttggtgt gtcctcggtt tctcggctgc tgggtcggtc 240
ccgcccacag ctggggcggc ctatgtcgag tggcgcccat ggcgaagagg gctcagctcg 300
catgtggaag actctcacct tcttcgtcgc gctccccggg gtggcagtca gcatgctgaa 360
tgtgtacctg aagtcgcacc acggagagca cgagagaccc gagttcatcg cctacccca 420
tctccgcatc aggaccaagc cgtttccctg gggagatggt aaccatactc tattccataa 480
ccctcatgtg aatccacttc caactggcta cgaagatgaa taaagagaat ctggaccact 540
acccgggcac cagggaccac agcactggtt tggaccgtta ctctgcacat ggaccagaaa 600
aagtatatgg gaccttaagc tcaccttctt tacttgtatc aaatgatgac tggtatactg 660
gtctcccatc cctttgcttg tggcaggaga tggcttaaat aaataactta aayttaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactn 780
ggggccg                                                              787

<210> 480
<211> 731
<212> DNA
<213> Homo sapiens

<400> 480
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gagcgcctca gtgcccgtgg acgtgatgcc aggcgagttt gatcccacca attacacgct 120
cccccagcag cccctccacc cctgcatgtt cccgctggcc actgcctact ccacgctcca 180
gctggtcacc aacccctacc aggccaccat tgatggagtc agattttttgg ggacatcagg 240
acagaacgtg agtgacattt tccgatacag cagcatggag gatcacttgg agatcctgga 300
gtggaccctg cgggtccgtc acatcagccc cacagcccct gacactctag gttgttaccc 360
cttctacaaa actgacccgt tcatcttccc agagtgcccg catgtctact tttgtggcaa 420
cacccccagc tttggctcca aaatcatccg aggtcctgag gaccagacag tgctgttggt 480
gactgtccct gacttcagtg ccacgcagac cgcctgcctt gtgaacctgc gcagcctggc 540
ctgccagccc atcagcttct cgggcttcgg ggcagaggac gatgacctgg gaggccttgg 600
ctgggcccct gactcaaaaa agtggttttg accagagagg cccagatgga ggctgttcat 660
tccctgcagt gtcggcattg taaataaagc ctgagcactt gctgatgcga aaaaaaaaaa 720
aaaaaaaaaa a                                                          731

<210> 481
<211> 1119
<212> DNA
<213> Homo sapiens

<400> 481
aataacgtgg caaccaccca cgagcccgcg tcggtgcccg ccccgcaggg ggacctacta 60
tccggcgccg agccggaggg gggaaacgrc gcccgccgcc cgcccggagc ccgcgagcaa 120
ccccagtccc ccccacccgc gcgtggcggc gccggctccc tagccaccgs ggccccaccc 180
tcttccggcc tcagctgtcc gggctgcttt cgcctccgcc tgtggatgct gcgcctctcc 240
gaacgcaaca tgaaggtgct ccttgccgcc gccctcatcg cggggtccgt cttcttcctg 300
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ctgctgccgg gaccttctgc ggccgatgag aagaagaagg ggcccaaagt caccgtcaag 360
gtgtattttg acctacgaat tggagatgaa gatgtaggcc gggtgatctt tggtctcttc 420
ggaaagactg ttccaaaaac agtggataat tttgtggcct tagctacagg agagaaagga 480
tttggctaca aaaacagcaa attccatcgt gtaatcaagg acttcatgat ccagggcgga 540
gacttcacca ggggagatgg cacaggagga aagagcatct acggtgagcg cttccccgat 600
gagaacttca aactgaagca ctacgggcct ggctgggtga gcatggccaa cgcaggcaaa 660
gacaccaacg gctcccagtt cttcatcacg acagtcaaga cagcctggct agatggcaag 720
catgtggtgt ttggcaaagt tctagagggc atggaggtgg tgcggaaggt ggagagcacc 780
aagacagaca gccgggataa acccctgaag gatgtgatca tcgcagactg cggcaagatc 840
gaggtggaga gcccctttgc catcgccaag gagtagggca cagggacatc tttctttgag 900
tgaccgtctg tgcaggccct gtagtccgcc acagggctct gagctgcact ggccccggtg 960
ctggcatctg gtggagcgga cccactcccc tcacattcca caggcccatg gactcacttt 1020
tgtaacaaac tcctaccaac actgaccaat aaaaaaaaat gtgggttttt ttttttttta 1080
ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg            1119
```

`<210> 482`
`<211> 2056`
`<212> DNA`
`<213> Homo sapiens`

`<220>`
`<221> misc feature`
`<222> (137)`
`<223> n equals a,t,g, or c`

`<400> 482`

```
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ggaggccacg ggcatgnatg cttcgggtcc tggtgggggc tgtcctccct gccatgctac 180
tggctgcccc accacccatc aacaagctgg cactgttccc agataagagt gcctggtgcg 240
aagcaagaac atcacccaga tcgtgggcca cagcggctgt gaggccaagt ccatccagaa 300
cagggcgtgc ctaggacagt gcttcagcta cagcgtcccc aacaccttcc cacagtccac 360
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gctggagtgc ccgggccacg aggaggtgcc cagggtggac aagctggtgg agaagatcct 480
gcactgtagc tgccaggcct gcggcaagga gcctagtcac gaggggctga gcgtctatgt 540
gcagggcgag gacgggccgg gatcccagcc cggcacccac cctcacccc atccccaccc 600
ccatcctggc gggcagaccc ctgagcccga ggacccccct ggggcccccc acacagagga 660
agaggggct gaggactgag gcccccccaa ctcttcctcc cctctcatcc ccctgtggaa 720
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atggcatgaa tcgggctaag gtccctgggg gtgcagatgg tactgctgag gtcccgggct 1080
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aagggaagag tcttccaagg ccagaaggag ggggacaacc ccccaagacc atccctgaag 1440
acgagcatcc ccctcctctc cctgttagaa atgttagtgc cccgcactgt gccccaagtt 1500
```

```
ctaggcccc cagaaagctg tcagagccgg ccgccttctc ccctctccca gggatgctct 1560
ttgtaaatat cggatgggtg tgggagtgag gggttacctc cctcgcccca aggttccaga 1620
ggccctaggc gggatgggct cgctgaacct cgaggaactc caggacgagg aggacatggg 1680
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ggcgggccca tgaagaaagc ccctcgttgc ccagcactgt ctgcgtctgc tcttctgtgc 1860
ccagggtggc tgccagccca ctgcctcctg cctggggtgg cctggccctc ctggctgttg 1920
cgacgcgggc ttctggagct tgtcaccatt ggacagtctc cctgatggac cctcagtctt 1980
ctcatgaata aattccttca acgccaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 2040
aaamaggggg gggccc                                                2056


<210> 483
<211> 887
<212> DNA
<213> Homo sapiens

<400> 483
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aaactgtttt tagtattttt gttaaatatt tgcaaaggga agcattttct acagaggata 120
attaatttca agaaaaatat cttgagtttt aagaaataaa catctccaga aaaggagaaa 180
gtcgatttta taaaatgtcg caactctcca acatttgggg tagtgactcc ttttttgtta 240
ggacatttga aactagcaag cagccattgt ttctaaagaa ttctggcttc acattgactc 300
atgtttcttt cactccattt tgaaatagct aaaaatcatt aaaactgtaa atattttgtt 360
gcttgggtaa gcatcttctg ggactttgt atctatggta tataatcata gaattttata 420
ttttcatata aagctaattt ttttctagtt tcaactccgt catagttktt tttccttttt 480
gtggtggata tgtgaattca actttctgtg tattgaagta gcaaaaacca tctttacatt 540
ccaaaagaat ccaacatgtg ttatttcttt gaggcagtga ttgtgaaagt tgggtttct 600
ttttaattcc attgaccatt tgtgcaatag gaattagaca taattagtca ctgaaaacat 660
tcgtcacatt gacccatttg gaaaaagtgt gcttttttt tttttttaaa tttgttcagg 720
gggaggggtt ttgtaacctg aaatttttcc ctttttcttc tgtttaaact atatcaaatc 780
attctattat agtgttattt aatatgtaaa ttgtattgct atacataaaa taaagtatgg 840
ttttgatgt aaaaaaaaa aaaaaaaaa aaaaaaaaa aataaaa           887


<210> 484
<211> 1878
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (1446)
<223> n equals a,t,g, or c


<400> 484
tctcctcgtg gctagttcag gcggaaggag cagtcctctg aagcttgagg agcctctaga 60
actatgagcc cgaggccttc ccctctccca gagcgcagag gctttgaagg ctacctctgg 120
gaagccgctc accgtcggaa gctgcgggag ctgaaactgc gccatcgtca ctgtcggcgg 180
ccatgacacc gctcgtytcc cgcctgaktc gtctgtgggc catcatgagg aagccacgag 240
cagccgtggg aagtggtcac aggaagcagg cagccagcca ggaagggagg cagaagcatg 300
ctaagaacaa cagtcaggcc aagccttctg cctgtgatgg cctggccagg cagccggaag 360
aggtggtatt gcaggcctct gtctcctcat accatctatt cagagacgta gctgaagtca 420
```

```
cagccttccg agggagcctg ctaagctggt acgaccaaga gaaacgggac ctaccatgga 480
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aggtcatgct gcagcagacc caggttgcca ctgtgatcaa ctactatacc ggatggatgc 600
agaagtggcc tacactgcag gacctggcca gtgcttccct ggaggaggtg aatcaactct 660
gggctggcct gggctactat tctcgtggcc ggcggctgca ggagggagct cggaaggtgg 720
tagaggagct aggggggccac atgccacgta cagcagagac cctgcagcag ctcctgcctg 780
gcgtggggcg ctacacagct ggggccattg cctctatcgc ctttggccag gcaaccggtg 840
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gcagcaccct tgtttcccag cagctctggg gtctagccca gcagctggtg gacccagccc 960
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cgcacntccg gcaccttggg gaggttgtcc acaccttctc tcacatcaag ctgacatatc 1500
aagtatatgg gctggccttg gaagggcaga ccccagtgac caccgtacca ccaggtgctc 1560
gctgctgacg caggaggaat ttcacaccgc agctgtttcc accgccatga aaaaggtttt 1620
ccgtgtgtat cagggccaac agccagggac ctgtatgggt tccaaaaggt cccaggtgtc 1680
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aaaaaaaaaa aaaaaaaa                                                1878
```

```
<210> 485
<211> 1566
<212> DNA
<213> Homo sapiens
```

```
<400> 485
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tagcaaactt caggagagct actttctatc caaataattt aaaaaacact tttcacctac 120
tcctttcatg gttataacac attggcagac tttttgctgg ctctgggagc catgattta 180
atcacattct gcaaggtgac aaatgtcata cattccacat tgtgtggtag ccatctcttt 240
agactcatgt gttttgggga aaggaagaag ttcttggctg agtactattt tgaactttcc 300
agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
ctaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
gatagataca gccttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
gggagaaatc tcaattagcc accttttcac agttgtgtgg atataacatt tggggggatct 540
ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
ttgtcttagc ttgtactgct tggtgatctc tgaggacctt ctaattcagt tgtaccccag 660
tgttccatgt atagaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720
acagtctttt tttgaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
tgttgattta atgaaggatt tcctttttaat gctgcttttg agcttcaagg taataggaca 840
gcaggaacct aaaatatctg ccatcatctg ccataggaaa gatacccaga gacccatcat 900
gttctctttt tgttgttaca ctgttgggtg ggtataacaa ttggaaaatg aacaaactga 960
ttgattgtgc aaactacttt ttatgacaag cctaaaccct cataatgcgg cagcttaaag 1020
tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaaacgt gtgcattctt 1140
```

410

```
actgaaaatg ttttcaaagg aaggtatcag ctgtgggcta attgccacca atttcagcct 1200
gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
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tggctagaga agaatcgcct ttggtttaaa atgtatgtgg tcccctaatg attgtgaccc 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggtttaaat ccactttgtg 1500
cctatctttt cactgacaat aaagttagct attttaaaat gcaaaaaaaa aaaaaaaaaa 1560
aaaatt                                                           1566
```

<210> 486
<211> 3046
<212> DNA
<213> Homo sapiens

<400> 486
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ctatcaggcc agcgttttaa aactagaaaa agagatgaaa aagagaggtt tgaccctact 180
cagtttcaag actgtattat tcaaggctta actgaaaccg gtactgattt ggaagcagta 240
gctaagtttc ttgatgcttc tggagcaaaa cttgattacc gtcgatatgc agaaacactc 300
tttgacattc tggtggctgg tggaatgctg gccccaggtg gtacactggc agatgacatg 360
atgcgtacag atgtctgcgt gtttgcagcc caagaagatc tagagaccat gcaagcattt 420
gctcaggttt ttaacaagtt aatcaggcgc tacaaatacc tggagaaagg ttttgaagat 480
gaagtaaaaa agctgctgct gttcttgaag ggttttttcag agtcggagag gaacaagcta 540
gctatgttga ctggtgttct tctggctaat ggaacactta atgcatccat tcttaatagc 600
ctttataatg aaaatttggt taaagaagga gtttcagcag cttttgctgt gaagctcttt 660
aaatcatgga taaatgaaaa agatatcaat gcagtagctg caagtcttcg gaaagtcagc 720
atggataaca gactgatgga actctttcct gccaataagc aaagtgttga acacttcaca 780
aaatatttta ctgaggcagg cttgaaagag ctttcagaat atgttcggaa tcagcaaacc 840
atcggagctc gtaaggagct ccagaaagaa cttcaagaac agatgtcccg tggtgatcca 900
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gttgtcatcg gaatagtctg gtcaagtgta atgagcactg tggaatggaa caaaaaagag 1020
gagcttgtag cagagcaagc catcaagcac ttgaagcaat acagccctct acttgctgcc 1080
tttactactc aaggtcagtc tgagctgact ctgttactga agattcagga gtattgctat 1140
gacaacattc atttcatgaa agccttccag aaaaatagtgg tgcttttttta taaagctgaa 1200
gtcctgagcg aggagcccat tttgaagtgg tataaagatg cacatgttgc aaagggggaag 1260
agtgttttcc ttgagcaaat gaaaaagttt gtagaatggc tcaaaaatgc tgaagaagaa 1320
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caggagttgt agataaaatg tcatgtctca tgtgtcctgg ttcttacatc ttcctacctc 1440
cctgtatcaa gcatgatata agggctttca tggcaaattt tattttaact gtttctatgg 1500
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gatttgaatc taatgttgca ttagtctttt cagttatctt ctacctcctg tattttctac 1620
tgtaataatg taatttaagg ccttccacaa tgaacagttc actttattcc ctgggttttc 1680
tataaacagt tttaaggata tgatttggtt aaaaaataat ttgttataaa aattctgttt 1740
gcaaattaaa ctggaaaagt atccagagtc tcaaaaggca atgatttgtg agataaatatg 1800
gcatgcccgg agccctgctc atcaatgaaa aacccatatg taataatcga attcatttaa 1860
catgaatctt gagtacgtgg accattgctt gcatgttaac tttttgtttt gttttgtttt 1920
gttttgtttt gcattttttaa ctccagatat cctaaagctc aattgtttgg tctctggttt 1980
tcatccttag agaagccatg gagaacagac ttgaaaagtt taggaaatca taatgtggca 2040
gaggtggtgg gaagaagaaa gttgagcttt ttccccttga gaaacttctg catttagttt 2100
ctatctttcc aggcaaaaca aatgggtatt cttttcatac aaccattttc aaatgaacct 2160
```

```
tagaaaagtc ttaacattta aggtatttta tgcacagaat acacttagat tgataggaaa 2220
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ttgaaaatgt taaaggtcag catgttctaa ttgggaatct agatatagct tagatttcct 2340
attggcttag agtatttgct ataacaaatg aagtgcaatg acaattatat attcctactc 2400
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attaacatac cctagttgcc gttttttaat tgccatgagc caaatacttc ttggtataca 2520
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agactgagtg gaaatcgccc cttttgaagg tgccattctt atgagccaaa agtttgtcat 2760
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ttgataaagt ttttcatgca caggcaaaat gtattcacta gatttctacg tagtgatctg 2940
cttttacttt gtaatttgta gttctcaaaa gacttttttt taaaaaaata aagtccatac 3000
ttacacttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa           3046
```

```
<210> 487
<211> 1904
<212> DNA
<213> Homo sapiens
```

```
<400> 487
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tccggcctcc ggggccttgc ggagactcac cccttcagcg tcgctgcccc cagctcagct 180
cttactgcgg gccgctccga cggcggtcca tcctgtcagg gactatgcgg cgcaaacatc 240
tccttcgcca aaagcaggcg ccgccaccgg gcgcatcgtg gcggtcattg gcgcagtggt 300
ggacgtccag tttgatgagg gactaccacc aattctaaat gccctggaag tgcaaggcag 360
ggagaccaga ctggtttttgg aggtggccca gcatttgggt gagagcacag taaggactat 420
tgctatggat ggtacagaag gcttggttag aggccagaaa gtactggatt ctggtgcacc 480
aatcaaaatt cctgttggtc ctgagacttt gggcagaatc atgaatgtca ttggagaacc 540
tattgatgaa agaggtccca tcaaaaccaa acaatttgct cccattcatg ctgaggctcc 600
agagttcatg gaaatgagtg ttgagcagga aattctggtg actggtatca aggttgtcga 660
tctgctagct ccctatgcca agggtggcaa aattgggctt tttggtggtg ctggagttgg 720
caagactgta ctgatcatgg agttaatcaa caatgtcgcc aaagcccatg gtggttactc 780
tgtgtttgct ggtgttggtg agaggacccg tgaaggcaat gatttatacc atgaaatgat 840
tgaatctggt gttatcaact taaaagatgc cacctctaag gtagcgctgg tatatggtca 900
aatgaatgaa ccacctggtg ctcgtgcccg ggtagctctg actgggctga ctgtggctga 960
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tcagcctacc ctggccactg acatgggtac tatgcaggaa agaattacca ctaccaagaa 1140
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ccctgctact acgtttgccc atttggatgc taccactgta ctgtcgcgtg ccattgctga 1260
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caaatccctc caggatatca ttgccatcct gggtatggat gaactttctg aggaagacaa 1440
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tgaggtcttc acaggtcata tggggaagct ggtaccccctg aaggagacca tcaaaggatt 1560
ccagcagatt ttggcaggtg aatatgacca tctcccagaa caggccttct atatggtggg 1620
acccattgaa gaagctgtgg caaaagctga taagctggct gaagagcatt catcgtgagg 1680
ggtctttgtc ctctgtactg tctctctcct tgcccctaac ccaaaaagct tcattttct 1740
```

412

```
gtgtaggctg cacaagagcc ttgattgaag atatattctt tctgaacagt atttaaggtt 1800
tccaataaaa tgtacacccc tcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa              1904
```

<210> 488
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (826)
<223> n equals a,t,g, or c

<400> 488
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gtacngattc ccggtcgacc cacgcgtccg acatggagct gttcctcgcg ggccgccggg 60
tgctggtcac cggggcaggc aaaggtatag ggcgcggcac ggtccaggcg ctgcacgcga 120
cgggcgcgcg ggtggtggct gtgagccgga ctcaggcgga tcttgacagc cttgtccgcg 180
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tcccagcggg cagtaactaa ccatagcgtc tactgctcca ccaagggtgc cctggacatg 420
ctgaccaagg tgatggccct agagctcggg ccccacaaga tccgagtgaa tgcagtaaac 480
cccacagtgg tgatgacgtc catggccag gccacctgga gtgaccccca caaggccaag 540
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gggggcttct gggcctgctg agctccctcc acacacctca agccccatgc cgtgctcatc 720
ctaccccaa tccctccaat aaacctgatt ctgctgccca aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaana       827
```

<210> 489
<211> 1926
<212> DNA
<213> Homo sapiens

<400> 489
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aattcggcac gagccatccc ggtgccggtc ccggacggca gcagtctgct caccaccgcc 60
ctgccctcca tggcggcggc cgcggggccc ctggacggca aagtcgccgc cctggccgcc 120
agcccggcct cggtggcagt ggactcgggc tctgaactca acagccgctc ctccacgctc 180
tcctccagct ccatgtcctt gtcgcccaaa ctctgcgcgg agaaagaggc ggccaccagc 240
gaactgcaga gcatccagcg gttggttagc ggcttggaag ccaagccgga caggtcccgc 300
agcgcgtccc cgtagacccg tccagacac gtcttttcat tccagtccag ttcaggctgc 360
cgtgcacttt gtcggatata aaataaacca cgggcccgcc atggsgttas ccttcctttt 420
gcagttgcgt ctgggaaggg gccccggact ccctcgagag aatgtgctag agacagcccc 480
tgtcttcttg gcgtggttta tatgtccggg atctggatca gattctgggg gctcagaaac 540
gtcggttgca ttgagctact gggggtagga gttccaacat ttatgtccag agcaacttcc 600
```

413

```
agcaaggctg gtctgggtct ctgcccacca ggcgggggagg tgttcaaaga catctccctc 660
agtgcggatt tatatatata ttttttccttc actgtgtcaa gtggaaacaa aaacaaaatc 720
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attttgtgtt atagttgttg atgrgttctt tggtttctgt tattttttccc cctctctttta 1860
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<210> 490
<211> 1461
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1452)
<223> n equals a,t,g, or c

<400> 490
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aagtggccgt agcggcttgt tggataagtg gaagatagat gataagcctg taaaaattga 180
caagtgggat ggatcagctg tgaaaaactc tttggatgat tctgccaaaa aggtacttct 240
ggaaaaatac aaatatgtgg agaattttgg tctaattgat ggtcgcctca ccatctgtac 300
aatctcctgt ttctttgcca tagtggcttt gatttgggat tatatgcacc cctttccaga 360
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aggaatggat cctgatgata tttggcagct gtcctccagt cttaaaaggt ttgatgacaa 540
atacaccttg aagctgacct tcatcagtgg gagaacaaag cagcagcggg aagccgagtt 600
cacaaagtcc attgctaagt tttttgacca cagtgggaca ctggtcatgg atgcatatga 660
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<210> 491
<211> 805
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<400> 491
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aatcaggcta ttgctatcct aatgtatgtc tctatgagtg tatttagcca cacatctgcc 360
cttggttgac tttctgactc attgcttgct tgcttgtttc cttgctttgg aaaactattg 420
aagattgcta aaaaatacca ctgcaaagtg atggaaaagg gtggagaaca ggggagtagc 480
caggctggat ggctcaaata taaatgaatg aggaattctt tatgaagtat cagtcagatt 540
ttatgattaa gtgatgtaat ataggaatta tgtaaaaggg aagaatgtct gatactgatc 600
tattagagag gtactttaga ggcttcttga ttggcataaa gttcctaagg ttatagattt 660
tcccccctttt tggctgtata gcaaagtgtt ttaatccacg gttgtgcctt attgttccat 720
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aaaaaaaaaa aaaaaaaaaa aaaaa                                        805
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<210> 492
<211> 2269
<212> DNA
<213> Homo sapiens

<400> 492
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ccggcggcgg cgcgcacaca ctcaggctga gcagaagagg agggacgcca tcaagagagg 180
ctatgatgac cttcagacca tcgtccccac ttgccagcag caggacttct ccattggctc 240
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aaagatcatg aaagtgaact atgagcagat tgtgaaggca caccaggaca acccccatga 420
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tgtcttcagc tggatcgagg agcactgtaa gcctcagacc ctgcgggaga ttgtgattgg 600
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<210> 493
<211> 4108
<212> DNA
<213> Homo sapiens

<400> 493
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tccgccttct gcagcaggtg tcacagattt atcagagcat tgagttttct cgtttgactt 240
ctttggttcc ttttgttgat gctttccaac tggaacgggc catagtagat gcagccaggc 300
attgcgactt gcaggttcgt attgatcaca cttctcggac cctgagtttt ggatctgatt 360
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ttaaaccagc tcatatactg caagagaaag aagaacagca tcagttggct gtcactgcat 540
accttaaaaa ttcacgaaaa gagcaccagc ggatcctggc tcgccgccag acaattgagg 600
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417

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<210> 494
<211> 2209
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<400> 494
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gaagaagaaa ccctaggcag acaccaggcc aggcttgaga gacagaactc ctgcatggct 780
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<210> 495
<211> 1677
<212> DNA
<213> Homo sapiens

<400> 495
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tttcctgatt tccttaaggt aggagagaat ttaacgtgta cttcatcgac acaacccatc 1080
tacaaatgtg cccagatcta acaaagtagg ctaagacctt ccacttaaaa gcatgtttaa 1140
ctggaagttg agagtctgct ttgtacctca agagttacat gagcatgttg tggataaatg 1200
taaattatag tcaaagtaag atactctgcc aagtttcctc tgtagagaat tcacttttct 1260
caaattttaa aatttcgact tcagcctttg cactcaggag gttctgctcc agcatgagct 1320
cttgtactta catagatcta atttatacag tgagtcaaga cgtagaataa atgctcccac 1380
atagcctttc ttttgctttt gcttctctcc tctgaagtgt gagttgagtt ctcatttagg 1440
tttgtaacat ggctatttcc tagttgtaaa gttctgcatt tataagtgcc attgttgtaa 1500
ggtggtgttt cctagacctt ccctgatgcg attttacctt tgttgaattt gtataaacaa 1560
ttgtacaaaa aaaaccactc ttgaactttg agggtttctg ttctaggagt ggactagaag 1620
tttaagccca gagtcagtaa acactgtttt gaagtccaaa aaaaaaaaaa aaaaaa      1677
```

<210> 496
<211> 1702
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1691)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1701)
<223> n equals a,t,g, or c

<400> 496
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cgagattccg ggattggaat caaaatgcta atttaaaagg tcaagtgaag ctgctcctca 60
cgttttggcg tgcctgcgct ctctgcaggc agaagcgaac aaagacccag caagagaagg 120
cagaggctaa gacccatccc gtatctgctc tcctgaaata attctggagt catgcctgaa 180
atgccagagg acatggagca ggaggaagtt aacatcccta ataggagggt tctggttact 240
ggtgccactg ggcttcttgg cagagctgta cacaaagaat ttcagcagaa taattggcat 300
gcagttggct gtggtttcag aagagcaaga ccaaaatttg aacaggttaa tctgttggat 360
tctaatgcag ttcatcacat cattcatgat tttcagcccc atgttatagt acattgtgca 420
gcagagagaa gaccagatgt tgtagaaaat cagccagatg ctgcctctca acttaatgtg 480
gatgcttctg ggaatttagc aaaggaagca gctgctgttg gagcatttct catctacatt 540
agctcagatt atgtatttga tggaacaaat ccaccttaca gagaggaaga cataccagct 600
cccctaaatt tgtatggcaa aacaaaatta gatggagaaa aggctgtcct ggagaacaat 660
ctaggagctg ctgttttgag gattcctatt ctgtatgggg aagttgaaaa gctcgaagaa 720
agtgctgtga ctgttatgtt tgataaagtg cagttcagca acaagtcagc aaacatggat 780
cactggcagc agaggttccc cacacatgtc aaagatgtgg ccactgtgtg ccggcagcta 840
gcagagaaga gaatgctgga tccatcaatt aagggaacct ttcactggtc tggcaatgaa 900
cagatgacta agtatgaaat ggcatgtgca attgcagatg ccttcaacct ccccagcagt 960
cacttaagac ctattactga cagccctgtc ctaggagcac aacgtccgag aaatgctcag 1020
cttgactgct ccaaattgga gaccttgggc attggccaac gaacaccatt tcgaattgga 1080
atcaaagaat cactttggcc tttcctcatt gacaagagat ggagacaaac ggtctttcat 1140
tagtttattt gtgttgggtt ctttttttttt tttaaatgaa aagtatagta tgtggcactt 1200
tttaaagaac aaaggaaata gttttgtatg agtactttaa ttgtgactct taggatcttt 1260
caggtaaatg atgctcttgc actagtgaaa ttgtctaaag aaactaaagg gcagtcatgc 1320
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gtatagtaaa ttatgatcct taaatatttg agagtcagga tgaagcagat ctgctgtaga 1440
cttttcagat gaaattgttc attctcgtaa cctccatatt ttcaggattt ttgaagctgt 1500
tgaccttttc atgttgatta ttttaaattg tgtgaaatag tataaaaatc attggtgttc 1560
attatttgct ttgcctgagc tcagatcaaa atgtttgaag aaaggaactt tatttttgca 1620
agttacgtac agttttttatg cttgagatat ttcaacatgt tatgtatatt ggaaaaataa 1680
agttcctttc ntcaaacatt nt                                           1702
```

<210> 497
<211> 2376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2354)
<223> n equals a,t,g, or c

420

<220>
<221> misc feature
<222> (2375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2376)
<223> n equals a,t,g, or c

<400> 497
ggctcnaaca tccttttgct gtgacgagct acgggaagaa tctgtatttc acagactgga 60
agatgaattc cgtggttgct ctcgatcttg caatttccaa ggagacggat gctttccaac 120
cccacaagca gacccggctg tatggcatca ccacggccct gtctcagtgt ccgcaagcca 180
taactactgc tcagtgaaca atggcggctg cacccaccta tgcttggcca ccccagggag 240
caggacctgc cgttgccctg acaacacctt gggagttgac tgtatcgaac agaaatgaag 300
acaagagtgc cttatttcct ttccaagtat ttcacagcaa caywytactt gaagcaactt 360
ggtccagatt gaaaagtgtc ctctggctga gtggccacta ggcccagacc cagcccagcc 420
tgagccccaa caactttttcc ctcactgttc cccaaaacat gcaccctgga cttctctaat 480
agaaaagtct ccacccctac acaaggacag aaccctccac ccctaccccc aaccctcaga 540
cagacttata caccctgag tgaggattac atgcccatcc cagtgtccta ggacctttc 600
ccaatactag cccccagtg gtgaacagaa cctcccaaat ttgagttgca cccttccctg 660
tggccttatg agctcagcct cgctttgagg tacccaccgt cctgtcagct ccttgaccta 720
tgagccgggg cctgactagg aaaagttggg agttaaggag gaaattagca ttccttaatg 780
ttttgttttg gtgctctgaa tttcttcttt attatagtcc tatagtttta ctcctcagtt 840
cctcaccatc atcatcttgt ctaagacccc cattataata ttcatgcgct gcttttcat 900
caaaacctac cctgtcctag agatctatgg gcatttggtg gatgataatg agcagcccct 960
cccagataga atgtcaatat ttgagcagta ggatattggc atttgttagt taaaggctta 1020
aatcaaaaga atgtccaatg gtaggaattt caaggtgtag gtcagatatt tgagaatagg 1080
ggattttttt gatgtgcctt aaattatacc aaagattact aattattcct ctttgcccaa 1140
aatacttgca tccaaggttc tagtctctgt tgctgtgctg gtctttagcc ccactgctkg 1200
cactgatgtc cctcctttc acggagacct atctgaggta caggatgggg ctggcaccag 1260
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aaccatgacc tcacccctcc ttggtttctc cctcgatctg tggccctttt tggatgtatt 1380
cttatctaac aacacaatcc ggaaagactg aattgaatat ttatactaat ggttcatatc 1440
ctttattgct caatgatcta attaaaggga tcattgccac atttcatgtt tatatttcta 1500
caatttgttt agaaaacatc tcctgaccat atcagtagct cgtgttatct tttttatcaac 1560
tgcttcccag agtcctaaaa caatagaaat tttggattga aaagttcagc ataaggagtt 1620
tgagtcagta aaggatggga taaaggagtc gagatgattc aatgaaaagt atcacaaaaa 1680
agagattgat caacaagaga aataaaaaag cccaagagga agtggtaggg gaaggaattt 1740
aagaacagca ataagtaaaa ctcttaagta actccaaaaa gaaaatggta catttttgcca 1800
aagaccactt atacttgaga acatggaaga atttgcctga tactctcttt ggggaaaaga 1860
gtctctcctc ttttcctcaa accccagtac actcagcctc tctgccccac cttctcctga 1920
ctttgtcctc acttgcttct gcagtacatt ggaacctgaa ttgaaagaaa gtcttccttg 1980
aataattgga gtttgtcttg agaggcaaat atagccccaa gaatcacaag attcgaggac 2040
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tttattcatt ttattagatt tattctaaaa ttttttaatg gtaaattctt aaactgtgga 2220
aaccactgaa ggtgcttatt aactgttctc ccagatttgt acaagtattg gatgattcct 2280
tgagtttaca gctgtacaaa tagtgtggaa aataaacttt ttttaaaaaa gaaaaaaaaa 2340

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aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaann                            2376

<210> 498
<211> 840
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (840)
<223> n equals a,t,g, or c

<400> 498
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gaagatggcg gtggagtcgc gcgttaccca ggaggaaatt aagaaggagc cagagaaacc 120
gatcgaccgc gagaagacat gcccactgtt gctacgggtc ttcaccacca ataacggccg 180
ccaccaccga atggacgagt tctcccgggg aaatgtaccg tccagcgagt tgcagatcta 240
cacttggatg gatgcaacyt tgaaagaact gacaagctta gtaaaagaag tctacccaga 300
agctagaaag aagggcactc acttcaattt tgcaatcgtt tttacagatg ttaaaagacc 360
tggctatcga gttaaggaga ttggcagcac catgtctggc agaaagggga ctgatgattc 420
catgaccctg cagtcgcaga agttccagat aggagattac ttggacatag caattacccc 480
tccaaatcgg gcaccacctc cttcagggcg catgagacca tattaaattc tatttactat 540
ttgttgaatt tatttttccg tcagttatgt aaaataaaca tactcttctt cctccctga 600
ttattgccat taagccttta aattctaaac aaattataat gcatcatcta tttaggagtt 660
agatttggat gtgctattgt atgattacga atagtctgta tgtttcaagc ccttctgtaa 720
aatatgaaga aaagtgctct tagcattctg tgtaaaactg tactgttaaa tatatgtgtg 780
taatcaaaaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan 840

<210> 499
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<400> 499
ggcacagctt ccctcctctt cctttctccg ccatcgtggt gtgttcttga ctccgctgct 60
cgccatgtct tctcacaaga ctttcaggat taagcgattc ctggccaaga aacaaaagca 120
aaatcgtccc attccccagt ggattcggat gaaaactgga aataaaatca ggtacaactc 180
caaaaggaga cattggagaa gaaccaagct gggtctataa ggaattgcac atgagatggc 240
acacatattt atgctgtctg aaggtcacga tcatgttacc atatcaagct gaaaatgtca 300
ccactatctg gagatttcga cgtgttttcc tctctgaatc tgttatgaac acgttggttg 360
gctggattca gtaataaata tgtaaggcct ttcytttta aaaaaaaaaa aaaaacyyrr 420
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422

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gggggggccc ggttcccaat cccccctatt tnaanccccct t                461
```

<210> 500
<211> 2782
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2620)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2641)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2712)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2742)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2759)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2779)
<223> n equals a,t,g, or c

<400> 500
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aagaagttca agtacggtat tgaagagcat ggtaaggtga aaatgcgagg ggggttgctg 120
cgaacctaca tcatcagtat cctcttcaag tctatctttg aggtggcctt cttgctgatc 180
cagtggtaca tctatggatt cagcttgagt gctgtttaca cttgcaaaag agatccctgc 240
ccacatcagg tggactgttt cctctctcgc cccacggaga aaaccatctt catcatcttc 300
atgctggtgg tgtccttggt gtccctggcc ttgaatatca ttgaactctt ctatgttttc 360
ttcaagggcg ttaaggatcg ggttaaggga aagagcgacc cttaccatgc gaccagtggt 420
gcgctgagcc ctgccaaaga ctgtgggtct caaaaatatg cttatttcaa tggctgctcc 480
```

423

```
tcaccaaccg ctcccctctc gcctatgtct cctcctgggt acaagctggt tactggcgac 540
agaaacaatt cttcttgccg caattacaac aagcaagcaa gtgagcaaaa ctgggctaat 600
tacagtgcag aacaaaatcg aatggggcag gcgggaagca ccatctctaa ctcccatgca 660
cagccttttg atttcccga tgataaccag aattctaaaa aactagctgc tggacatgaa 720
ttacagccac tagccattgt ggaccagcga ccttcaagca gagccagcag tcgtgccagc 780
agcagacctc ggcctgatga cctggagatc tagatacagg cttgaaagca tcaagattcc 840
actcaattgt ggagaagaaa aaaggtgctg tagaaagtgc accaggtgtt aattttgatc 900
cggtggaggt ggtactcaac agccttattc atgaggctta gaaaacacaa agacattaga 960
atacctaggt tcactggggg tgtatggggt agatgggtgg agagggaggg gataagagag 1020
gtgcatgttg gtatttaaag tagtggattc aaagaactta gattataaat aagagttcca 1080
ttaggtgata catagataag ggctttttct ccccgcaaac acccctaaga atggttctgt 1140
gtatgtgaat gagcgggtgg taattgtggc taaatatttt tgttttacca agaaactgaa 1200
ataattctgg ccaggaataa atacttcctg aacatcttag gtcttttcaa caagaaaaag 1260
acagaggatt gtccttaagt ccctgctaaa acattccatt gttaaaattt gcactttgaa 1320
ggtaagcttt ctaggcctga ccctccaggt gtcaatggac ttgtgctact atattttttt 1380
attcttggta tcagtttaaa attcagacaa ggcccacaga ataagatttt ccatgcattt 1440
gcaaatacgt atattctttt tccatccact tgcacaatat cattaccatc actttttcat 1500
cattcctcag ctactactca cattcattta atggtttctg taaacatttt taagacagtt 1560
gggatgtcac ttaacatttt tttttgagc taaagtcagg gaatcaagcc atgcttaata 1620
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gcagatacag tataaactca caaacacaga tttgaaaata atgcacatat ggtgttcaaa 1740
tttgaacctt tctcatggat ttttgtggtg tgggccaata tggtgtttac attatataat 1800
tcctgctgtg gcaagtaaag cacacttttt tttttctccta aaatgttttt ccctgtgtat 1860
cctattatgg atactggttt tgttaattat gattctttat tttctctcct ttttttagga 1920
tatagcagta atgctattac tgaaatgaat ttccttttttc tgaaatgtaa tcattgatgc 1980
ttgaatgata gaattttagt actgtaaaca ggctttagtc attaatgtga gagacttaga 2040
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ttgggttttc ctacttaata cacagtaatt cagaacttgt attctattat gagtttagca 2160
gtcttttgga gtgaccagca actttgatgt ttgcactaag attttatttg gaatgcaaga 2220
gaggttgaaa gaggattcag tagtacacat acaactaatt tatttgaact atatgttgaa 2280
gacatctacc agtttctcca aatgcctttt ttaaaactca tcacagaaga ttggtgaaaa 2340
tgctgagtat gacactttc ttcttgcatg catgtcagct acataaacag ttttgtacaa 2400
tgaaaattac taatttgttt gacattccat gttaaactac ggtcatgttc agcttcattg 2460
catgtaatgt agacctagtc catcagatca tgtgttctgg agagtgttct ttattcaata 2520
aagttttaat ttagtataaa catagcttct atattccgtc tcaaaaaaaa aaaaaaaaa 2580
acgtgcttag ttcagttcaa gttgctcctt tataatttgn ttttggatga aaaaagattg 2640
ngncatttgt ttaaagtcag aggattatct aaaagccagt ttcccagtca atttggatat 2700
aattggtagt gngaatactt cttcaaggac tattacttgg gnggttggag aatttattnt 2760
ggaagaaggc aaatgcttng gg                                           2782
```

<210> 501
<211> 1249
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<400> 501

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gcaaggagtc cccaatgcaa agacacagcg ctgcgnttgg cacctccttc ctcactccct 60
caaaattgtt aagaaatgtt agtggtgggt ctgatctgac tgcagccatc ggtaaataaa 120
agtttttgat cctgttgaac ccgcctgaga cggtgctgtg aggggaaagc cttccgcacc 180
cacacaggaa ttctgctgag gtccccctc cttccggcca atggcagaag tggggaaaa 240
ttttttagaag aaaagcaaac atgtgagacc aatcattatc aaatactttt attttttggt 300
tgagtattta tcttttatt ttttatttt tttttttgaaa gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420
cccgatctcc ctccccacct ccgaagtctc ctccgtggac cacaggtgga tctttgtgcg 480
aacaacttgc atttcggaag ccactgtccg tctttaaaca gaaagtcgaa ggagccacga 540
agcaagcggc cgtccgggcg tccgyctgcc gtccccttcc atgttcctcc tcttccttcg 600
cttcagcctc ttctgttatg ttttgtcttg aattttattt agacttttc agtgggtatt 660
tttctgtctt ccaacctcta ctgtaaactt tctggtccga gaacgagccg aacacagcgc 720
gacgcaggga ctaggacggc ccggtgaccg cgcggattca ggattgcggg gacgcagaaa 780
ggttaaggca cttttaaaaa ctatagcaag gctcctgttt atttattcta ctttctttcc 840
ctaataatca aaacaccgcg taggctcctc cgtttatcag tattaatggt gtaactttgt 900
tggcaatatt tgccgtgtag aatttttttt agatatccat tgtaaatttg aaacaaagac 960
cgatctgtgt aaaaacaaat ttccatatgt tttatataaa tatatatata atatgaagga 1020
ctaccctcct ttttttttttt gtattttggc tgctagagtg cagcatttgt gacacgtatt 1080
tgaaatttga aatttccttc tgcactgtat aaaaggacca tttgaggatg ttttgccttt 1140
tgtgtattttt ttcctaaaaa aagaacaaaa ataaaaatgt ataacatttg tacatggcct 1200
ttaaaattgt atcaactaga aataaaattg catgagtatt ttaaaaaaa        1249
```

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<210> 502
<211> 1358
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1351)
<223> n equals a,t,g, or c

<400> 502
cccgcaccct agccaggccc cagggagcct ccgctgggcc cagacagcag cgttyggttt 60
tatccacttt tctyggataa tcaggaggtg ccccagtsgt cacagtgtgg cattccgagt 120
tggggcgggt ggtcgggtca agatagcagc agcaggtgtc agggctcaag acaccacccc 180
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ctccagcttc tggggcccag gagcctctcc ctgctacagg gggtggggggt cctgctcagc 240
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ttggcgtctg tractaaagg gacgctggat tgctcaggtc agctgctcgg ggctcccagg 360
ctgggtgtgc cttagccaca ggcagggctg tcaataaccc ccttcctcac tggccaccac 420
ctgacatcag caccagtgac aggctggtca gagggcgggg ctggtgaggg tttgtcctaa 480
gaggaccacc gccatctctg ggtctccagg gggagagcct ggccctgtcc tttgctaccc 540
agggctgccc ccaggcccat gaagccaata ggagagcgtg tggcactggc ccacaaactg 600
tccctgtcct gtcttcctcc cgagccatgg cctctgctag ctccaccttg aaggagcccc 660
ccacatcctc ccctacatcc cagagatgcc accacttgtg tctccacaat gtgctcctgc 720
ccacccgggt tccgcactgt ccgacccctg cacaccactc atgtcaccac ggcgtgcatc 780
atgttcatcc ccatctattt atttaagcct ttctttgctt gtagggcatt ttgtatgtag 840
agcagttgaa aacagaacct cagaacttaa catctgtcct gatgttaaag tgcttttcat 900
gaccaccctg ttatctatgt atatgtaaag ttaaggatga gatcttaagt ttacaattaa 960
aaactcagta ctcaatattt aatattctac tcgagcttta tggaagccaa atcatgtgca 1020
tgtgtgtgtg tgcgtgtgtg caagctttga acctccttcc acagccgcat cttctcatga 1080
cacaaagctt ttgataagta ctttcctgtg ggtcgctcag ggcctcatag catctcattc 1140
aattacaaga atagaggcca gacacggtgg cgcatgcctg gtagtcccag ctaaactggg 1200
gaggctggag ggcagggagg gatcactttg gagcccaggg agattggagg gctggcagtg 1260
gagccatgga tccggcggac actggcactt ccagcctggg ggtggacggg tggagacttt 1320
tgttctccaa aaanaaaaaa aaaaaancnt nggagggc                         1358
```

<210> 503
<211> 501
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<400> 503
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gcccacgcgt ccgacggctg cgagaagacg acagaagggg ctttctttct ttccgcgccg 60
atagcgctca cgcaagcatg gttaacgtcc ctaaaacccg ccggactttc tgtaagaagt 120
gtggcaagca ccaacccat aaagtgacac agtacaagaa gggcaaggat tctctgtacg 180
cccagggaaa gcggcgttat gacaggaagc agagtggcta tggtgggcaa actaagccga 240
ttttccggaa aaaggctaaa actacaaaga agattgtgct aaggcttgag tgcgttgagc 300
ccaactgcag atctaagaga atgctggcta ttaaaagatg caagcatttt gaactgggag 360
gagataagaa gagaaagggc caagtgatcc agttctaagt gtcatctttt attatgaaga 420
caataaaatc ttgagtttat gttcaaaaaa aaaaaanggg ggggcccgg tacccawtcg 480
cctataggg gncgtttaaa a                                           501
```

<210> 504
<211> 2011
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc feature
<222> (1941)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1961)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1974)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1976)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2002)
<223> n equals a,t,g, or c


<400> 504
gatctgcctt cccagttaga ctgagagaac aggggatata cctaaataat aataataata 60
ataataataa taataataat aaataataat ggagagctcc ttgaagatag ggagcctgta 120
agaatcattg agggcttatt ttgtatacca actgctaaac tagatgcttc atacattgtt 180
gtcaatactc atgacagcct tgtaaagtag aaawtaattc ttccagttaa cackaaggct 240
gacatatgaa taccttggca aatctggaaa gctgggaaga cagtaattga actcaagact 300
tcttgtcacc aagggcatgc acttgtactc tgccatgtgg sccttttta cctcctgtgg 360
attctcccta cctggtactt ggccttaggt gtacacacac ctggcacttt gcttgacaca 420
taataggtgg accacaaata tctactaaat gaatatttgc atatagtaat attttaaggt 480
actaaaagca gctcaaagta aatattaata tattaattcc attgctatct ggataaccac 540
tcaactttcc tgctgaaaat gcccatttaa ttaaagaagg ttggatagag ctctctatat 600
gcattttgga caggcagggg tttcaggtca taaacattct gatgagttaa tataaaataa 660
gagaaactgt aaatttccac tactaaaaat cacaaaaata acagaaacaa aagaagagat 720
aagaatttgg ggaattgtgc tgaacaattt agtggttaaa aaaaacaact gtgcatgttt 780
agacttaaat aagcccccat ccaagtgtga ggggtccagt aatttttcaa aacatatgaa 840
agtgttaata catttygaca aaggaccatt aaaaaagtcc tgaattctga cttgagggag 900
gaaagtaatg actaatacat tctctagaga cttgcagact ttgggaattc ataaaggaat 960
ggatgataat tattaactgt tgctggctga ttgcccagac agttctcaac agccctgtac 1020
aagtctctgg gtttgggatg gatcaattct gagactggaa aatggccaaa tctttgcaaa 1080
tgagaaatat ttttcttata agttcttatt gtaggcaaat aattacatag attattcatc 1140
agagaatttt taaatgctca taatctcaac tctttcattt acaacttgta tttccaatag 1200
tttatgggtc atctctgcat agatgtcaga agtcacctca agtttagygt gtccaaaatc 1260
taactcacag gtctgtttct gacctcccaa cttgctttcc ttgtgttttt cctatgctaa 1320
tgatccacca taatcaaaat aattaacatt tatccagtgc ctactatgta ctattccctg 1380
tcctgtttta catttactca tttaaagtcc ataagaaaca ttaaatctca tctgccttct 1440
```

```
gaagaagata caaccatgct ctctttaca aagtaggaaa ctgggtcaca gaaaggtgaa 1500
gtctttaagg ctgaatcaca gtagctcatc ctagtaaata gaaaagccag gattcaactc 1560
caggggctgg gtgcagaact gctattcttc actgcttcac caatcagcag ctacccaagg 1620
cagaaaactt tttcatcctt ggctccttca ttctccctgt caccccagat ccctctaca 1680
tctagtcaga gaataggtcc tgtcaattcc aacttctcta tatggctcct ctcaggcatg 1740
tgcccttaat tggcctaatt ctctaataca ccttccctct acatgctcac tccctcagat 1800
cattgcttta tcacgkrtta cctgggttgc tattacataa agagcaatct ttctaaaatg 1860
agggatctta tcacttcact tccacactaa aatgtttttc ctgggggaac cacacttcct 1920
tagcaatctg acccatcaga nctttccagg ctgtctcctg nctggttccc taangntccc 1980
agccaacacc ggaattatca tngggcccaa a                                 2011
```

```
<210> 505
<211> 1989
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1917)
<223> n equals a,t,g, or c

<400> 505
ggtgaggggt cgcccgtgca cagcctgtcc cagccgtcct gtcctggctg ctcgctctgc 60
ttcgctgcgc cgccactatg ctctccctcc gtgtcccgct cgcgcccatc acggacccgc 120
agcagctgca gctctcgccg ctgaaggggc tcagcttggt cgacaaggag aacacgccgc 180
cggccctgag cgggacccgc gtcctggcca gcaagaccgc gaggaggatc ttccaggagc 240
ccacggagcc gaaaactaaa gcagctgccc ccggcgtgga ggatgagccg ctgctgagag 300
aaaacccccg ccgctttgtc atcttcccca tcgagtacca tgatatctgg cagatgtata 360
agaaggcaga ggcttccttt tggaccgccg aggaggtgga cctctccaag gacattcagc 420
actgggaatc cctgaaaccc gaggagagat attttatatc ccatgttctg gctttctttg 480
cagcaagcga tggcatagta aatgaaaact tggtggagcg atttagccaa gaagttcaga 540
ttacagaagc ccgctgtttc tatggcttcc aaattgccat ggaaaacata cattctgaaa 600
tgtatagtct tcttattgac acttacataa aagatcccaa agaaagggaa tttctcttca 660
atgccattga aacgatgcct tgtgtcaaga agaaggcaga ctgggccttg cgctggattg 720
gggacaaaga ggctacctat ggtgaacgtg ttgtagcctt tgctgcagtg gaaggcattt 780
tcttttccgg ttcttttgcg tcgatattct ggctcaagaa acgaggactg atgcctggcc 840
tcacattttc taatgaactt attagcagag atgagggttt acactgtgat tttgcttgcc 900
tgatgttcaa acacctggta cacaaaccat cggaggagag agtaagagaa ataattatca 960
atgctgttcg gatagaacag gagttcctca ctgaggcctt gcctgtgaag ctcattggga 1020
tgaattgcac tctaatgaag caatacattg agtttgtggc agacagactt atgctggaac 1080
tgggttttag caaggttttc agagtagaga acccatttga ctttatggag aatatttcac 1140
tggaaggaaa gactaacttc tttgagaaga gagtaggcga gtatcagagg atgggagtga 1200
tgtcaagtcc aacagagaat tctttttacct tggatgctga cttctaaatg aactgaagat 1260
gtgcccttac ttggctgatt ttttttttcc atctcataag aaaaatcagc tgaagtgtta 1320
ccaactagcc acaccatgaa ttgtccgtaa tgttcattaa cagcatcttt aaaactgtgt 1380
agctacctca caaccagtcc tgtctgttta tagtgctggt agtatcacct tttgccagaa 1440
ggcctggctg ctgtgacttt accatagcag tgacaatggc agtcttggct ttaaagtgag 1500
gggtgaccct ttagtgagct tagcacagcg ggattaaaca gtcctttaac cagcacagcc 1560
agttaaaaga tgcagcctca ctgcttcaac gcagatttta atgtttactt aaatataaac 1620
ctggcacttt acaaacaaat aaacattgtt tgtactcaca aggcgataat agcttgattt 1680
atttggtttc tacaccaaat acattctcct gaccactaat gggagccaat tcacaattca 1740
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```
ctaagtgact aaagtaagtt aaacttgtgt agactaagca tgtaattttt aagtttttatt 1800
ttaatgaatt aaaatatttg ttaaccaact ttaaagtcag tcctgtgtat acctagatat 1860
tagtcagttg gtgccagata gaagacaggt tgtgtttttta tcctgtggct tgtgtantgt 1920
cctgggattc tctgcccccy ctgagtarag tgttgtgggr taaaggaatc tytcaggggc 1980
aggggcctt                                                           1989


<210> 506
<211> 1085
<212> DNA
<213> Homo sapiens


<400> 506
gggcgtggcg gcgctgtgcg cgtgcacaaa agagagctga ggggcggggg cgctgcggca 60
cagctggttt gagcaactga actggaaaca agatgcagga ccccaacgca gacactgaat 120
ggaatgacat cttacgcaaa aagggtatct tacccccccaa ggaaagtctg aaagaattgg 180
aagaggaggc agaagaggag cagcgcatcc tccagcagtc agtggtgaaa acatatgaag 240
atatgacttt ggaagagctg gaggatcatg aagacgagtt taatgaggag gatgaacgtg 300
ctattgaaat gtacagacgg cggagactgg ctgagtggaa agcaactaaa ctgaagaata 360
aattyggaga agttttggag atctcaggga aggattatgt tcaagaagtt accaaagctg 420
gcgagggctt gtgggtcatc ttgcaccttt acaaacaagg aattcccctc tgtgccctga 480
taaatcagca cctcagtgga cttgccagga agtttcctga tgtcaaattt atcaaagcca 540
tttcaacaac ctgcataccc aattatcctg ataggaatct gcccacgata tttgtttacc 600
tggaaggaga tatcaaggct cagtttattg gtcctctggt gtttggcggc atgaacctga 660
caagagatga gttggaatgg aaactgtctg aatctggagc aattatgaca gacctggagg 720
aaaaccctaa gaagccgatt gaagacgtgt tgctgtcctc agtgcggcgc tctgtcctca 780
tgaagaggga cagcgattcc gagggtgact gaggctacag cttctatcac atgccgaact 840
ttcttgtgac aaattgtctg gatttttttaa aaaaggaaaa agcaagaatg aatccttgtg 900
gtttttagtt ttgtataaat tatgtttcaa atctttacat tttggaaata atcattgctg 960
gagattctgt taaatatttt ggaactcttt tttttttaaa ttatagtatt tcctctaaaa 1020
aaaattaaaa ccagccattt gtatggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaa                                                              1085


<210> 507
<211> 1485
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1475)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1476)
<223> n equals a,t,g, or c
```

429

<220>
<221> misc feature
<222> (1485)
<223> n equals a,t,g, or c

<400> 507
cgccgcccgt gcctttcctc ttcctcctyc tcctccttgg catccgcctc ttcttcctcc 60
tgcgtcctcc cccgctgcct ccgctgctcc cgacgcggag cccggagccc gcgccgagcc 120
cctggcctcg cggtgccatg ctgccccggc ggcggcgctg aaggatggcg acgccgctgc 180
ctccgccctc cccgcggcac ctgcggctgc tgcggctgct gctctccggc ctcgtcctcg 240
gcgccgccct gcgtggagcc gccgccggcc acccggatgt agccgcctgt cccgggagcc 300
tggactgtgc cctgaagagg cgggcaaggt gtcctcctgg tgcacatgcc tgtgggccct 360
gccttcagcc cttccaggag gaccagcaag ggctctgtgt gcccaggatg cgccggcctc 420
caggcggggg ccggccccag cccagactgg aagatgagat tgacttcctg gcccaggagc 480
ttgcccggaa ggagtctgga cactcaactc cgcccctacc caaggaccga cagcggctcc 540
cggagcctgc caccctgggc ttctcggcan ggggcaggg gctggakctg ggcctcccct 600
ccactccagg aaccccacg cccacgcccc acacctccct gggctcccct gtgtcatccg 660
acccggtgca catgtcgccc ctggagcccc ggggagggca aggcgacggc ctcgcccttg 720
tgctgatcct ggcgttctgt gtggccggtg cagccgccct ctccgtagcc tccctctgct 780
ggtgcaggct gcagcgtgag atccgcctga ctcagaaggc cgactacgcc actgcgaagg 840
cccctggctc acctgcagct ccccggatct cgcctgggga ccagcggctg gcacagagcg 900
cggagatgta ccactaccag caccaacggc aacagatgct gtgcctggag cggcataaag 960
agccacccaa ggagctggac acggcctcct cggatgagga gaatgaggac ggagacttca 1020
cggtgtacga gtgcccgggc ctggccccga ccggggaaat ggaggtgcgc aaccctctgt 1080
tcgaccacgc cgcactgtcc gcgcccctgc cggcccccag ctcaccgcct gcactgccat 1140
gacctggagg cagacagacg cccacctgct ccccgacctc gaggcccccg gggaggggca 1200
gggcctggag cttcccacta aaaacatgtt ttgatgctgt gtgcttttgg ctgggcctyg 1260
ggctccaggc cctgggaccc cttgccaggg agaccccga acctttgtgc caggacacct 1320
cctggtcccc tgcacctctc ctgttyggtt tagaccccca aactggaggg ggcatggaga 1380
accgtagagc gcaggaacgg gtgggtaatt ctagagacaa aagccaatta aagtccattt 1440
cagacctgcg gaaaaaaaaa aaaaaaaaa aaacnngggg ggggn   1485

<210> 508
<211> 1930
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<400> 508
attttagtaa acttttagac aaaatttgtn aaaatgctga catcatttat aatccttcat 60
ttatttgtaa aaagatgagg acacacatta artgawgtca gcattttagt aaacttttag 120
acaaaatttg ttagggtcat tcatgaaaac tttaatacta aaagcacttt ccattatata 180
ctttttaaag gtctagataa ttttgaacca atttattatt gtgtactgag gagaaataat 240
gtatagtaga ggacagcctt ggtttgtaaa gctcagttcc actagttcat ggttttgtgc 300
aacttctgag cctcagtttt ctcctttgca aattaataat tacatacctt tatagatttt 360
gaaattaatt taaatattag tatttggtac atgaaggctt aatgttaagt ttcctttaat 420

```
gatccacaat aatccctttg atcacgttaa tctaaatcta gatgtctttg tctaattttt 480
tttgaatagc agttataaat gtaaaggact caaagtttaa gtaaaaagtg atactccacc 540
ttgtgtttca aagaatttag ttccacctct tcataccagt ttaacactta atatatttca 600
ttggatttta gacagggcaa aaggaagaac aggggcctct ggaggccctt ggttatttaa 660
atcttggatt atttgtgata gtaatcacaa attttttggct aattttttaac ctgaggtttt 720
gttttttttt taaaggaaat gcagcctagt cttgagaaca taattttata taatcaatta 780
ctaaatgtta aactattacc acacagccca taaaacagca tttgcgttta ttgagagaga 840
ggatgtgcca tcatgattaa tgaaaactat cttttgagtt tgaaaagaaa ttaatttgca 900
gtgtttggat tgtatatatg gtgctaaaaa taaattaatt tactttataa accttatctg 960
tacattatac gatgtgatga aatttgcttt ttatccaaat attttgtatc ttgtaaatat 1020
ggctaattat aggaatgcct ataatacatc ttagattcct tatatctaat aagagttcaa 1080
agagttatga gttgaagtct tgaatgcagg aaactatctg atagtgttct aaaatttggt 1140
tacttgggtt tggatacct tagtgggatg atgtaaatag aggctagcta cctaggcttg 1200
tctatagcaa ccataatgtt gatgtaagta atgcggttac tgaatcataa gaaaatgcca 1260
tctctttttta gttgaaggaa aactctggaa gtaggtgcca ttggtcattc tgcagtgcac 1320
tgcaaccatt gtttcccta gtgccctctt ttccctaggg cattgctctc ctattcccac 1380
gccttaacac agctctatac ctagaagcag ccagcccagg catgcagtca catttaatca 1440
catcccccctt ctagagtgct tcaaaatgat gtagtccctc aacttggcta aagaatctca 1500
atctcttgaa atttatttt ttaatgtcat attcatctgg taaatatcta ctgtttgcca 1560
ggcatttaag aatatggcaa agaacataaa agatggtgtc accagatttt ggtcaccaat 1620
gagtacccga cccgttgcca tgattaagag agaatgcttt ctattggagt ttcaggaaat 1680
ataatttgag aatactttaa agggaagtgg aagtataagt gaatgatatt tttcttttac 1740
atgtaaacaa tgaagttatt tcaaagttaa gttttaaaca aaatacatga agtagtgtct 1800
gccatacatg ttaatattct acattcttgc ttccttaaat taatatgttt gtgtgtatat 1860
atgtgcctca cacctgaatt gaaaattaaa gactggttta aaagtgaaaa aaaaaaaaaa 1920
aaaaaaaaat                                                      1930
```

```
<210> 509
<211> 1134
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (895)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1041)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1064)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1090)
<223> n equals a,t,g, or c
```

431

<220>
<221> misc feature
<222> (1106)
<223> n equals a,t,g, or c

<400> 509
gagccacgcc cgggctgtgg gaataagatg gcggggaaga agaatgttct gtcgtctctc 60
gcagtttacg cggaagattc agagcccgag tctgatggcg aggctggaat cgaggcggtg 120
ggcagcgcgg ctgaggagaa aggcggattg gtatctgatg cctatgggga ggatgacttt 180
tctcgtctag ggggtgatga agatggttat gaagaagaag aagatgagaa cagtagacag 240
tcggaagatg acgattcaga gactgaaaaa cctgaggctg atgacccaaa ggataataca 300
gaagcagaaa agcgagaccc ccaggaactc gtggcctcct tttctgaaag agttcggaac 360
atgtcgcctg atgaaatcaa gatcccgcca gaacccctg gcagatgttc aaatcacttg 420
caagacaaga tccagaagct ttatgaacga aagataaagg agggaatgga tatgaactac 480
attatccaaa ggaagaaaga atttcggaac cctagcatct acgagaagct gatccagttc 540
tgtgccattg acgagcttgg caccaactac ccaaaggata tgtttgatcc ccatggctgg 600
tctgaggact cctactatga ggcattagcc aaggcccaga aaattgagat ggacaaattg 660
gaaaaggcca aaaaggagcg aacaaaaatt gagtttgtga cgggcaccaa aaaaggcacc 720
acgaccaacg ccacgtccac caccactacc actgccagca cagctgttgc agatgctcag 780
aagagaaaga gcaagtggga ttcggctatc ccagtgacaa cgattagccc agcccaccat 840
cctcaccacc acagccaccc tgccagctgt tgtcacggtc accaccagcg ccagncktcc 900
aaggaccacc gtcatctctg ctgtggggca ccattgtgaa gaaggccaag cagtgacctg 960
aggggccacc ttagggaytt gaaaagggac cgttgcagcc ccarttgacc actggccagt 1020
gggagggcgg ccattttgt nttattttc agggatttgg ggancttatt tccccaggtt 1080
gcccaacttn aggagggagt tttttntttt tgggcttttc caggttggga aggg   1134

<210> 510
<211> 1382
<212> DNA
<213> Homo sapiens

<400> 510
ggcgaatggg gaaggatttg aagtcacctt tgggtgtttg gagtgatcag agctgtctgc 60
cctcttgggg agtgacagtg ccccactctg ttaagtccca tgcctgcccc caactcagct 120
tcagccacaa tgatgtagcc tcttttcctt tccatccaca gggcacctgg cctgggtgga 180
gcccactcct cagcacccac ctcacttctt gcagtattct gcagacccca gccctgtgcc 240
tgtgctcctg gacagctgga gataaggagt gggccctgga agatgctcat tcaggccctg 300
ctcaagattc cagtcctgat tgctggactc gctgaagara gactacgcag gaaagcccca 360
gccacccatc aaatcagaga gaaggaatcc accttcttac gctatggcag gtaagaaagt 420
actcattgtc tatgcacacc aggaacccaa gtctttcaac ggatccttga agaatgtggc 480
tgtagatgaa ctgagcaggc agggctgcac cgtcacagtg tctgatttgt atgccatgaa 540
ctttgagccg agggccacag acaaagatat cactggtact ctttctaatc ctgaggtttt 600
caattatgga gtggaaaccc acgaagccta caagcaaagg tctctggcta gcgacatcac 660
tgatgagcag aaaaaggttc gggaggctga cctagtgata tttcagttcc cgctgtactg 720
gttcagcgtg ccggccatcc tgaagggctg gatggatagg gtgctgtgcc agggctttgc 780
ctttgacatc ccaggattct acgattccgg tttgctccag ggtaaactag cgctcctttc 840
cgtaaccacg ggaggcacgg ccgagatgta cacgaagaca ggagtcaatg gagattctcg 900
atacttcctg tggccactcc agcatggcac attacacttc tgtggattta aagtccttgc 960
ccctcagatc agctttgctc ctgaaattgc atccgaagaa gaaagaaagg ggatggtggc 1020
tgcgtggtcc cagaggctgc agaccatctg gaaggaagag cccatcccct gcacagccca 1080

432

```
ctggcacttc gggcaataac tctgtggcac gtgggcatca cgtaagcagc acactaggag 1140
gcccaggcgc aggcaaagag aagatggtgc tgtcatgaaa taaaattaca acatagctac 1200
ctggggatac ttttttcttt ctgttttttg tttgttttta attttagctt taaggagcac 1260
atggccagta ctgtttcagg ggaatattgg gtggcgctgg ggtttgggct tctattgatc 1320
ccatcaccca aacagtgagc atagttccca atagatagtt tttcaacact tcctttcctc 1380
cc                                                                 1382
```

<210> 511
<211> 1741
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1696)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1710)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1715)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1717)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1720)
<223> n equals a,t,g, or c

<400> 511
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aactatccaa gccacctatt ttatttgttc tttcatctgt gactgcttgc tgactttatc 60
ataattttct tcaaacaaaa aaatgtatag aaaaatcatg tctgtgastt catttttaaa 120
tgtacttgct cagctcaact gcatttcagt tgtattatag tccagttctt atcaacatta 180
aaacctatag caatcatttc aaatctattc tgcaaattgt ataagaataa agttagaatt 240
aacaatttta ttttgtacaa cagtggaatt ttctgtcatg gataatgtgc ttgagtccct 300
ataatctata gacatgtgat agcaaaagaa acaaacaaaa gccaggaaaa cactcatttt 360
cgccttgaat atgtaaatgg gattaatttt gtcctgtgcc ttatgtggaa aggaacttct 420
ttggtttttcc ttttttgttc tggtggaagc atgtgcagga gacatatcat ccaaacataa 480
accattaaaa tgtttgtggt ttgcttggct gtaattttca aagtagttaa ttgaggacaa 540
agggtaatgc agaagtgata gctttggttt gctgagtctt gtttttaagtg gccttgatat 600
ttaaaactat tcctgccacc atttcttctc cttggccact tcttccttgc gtctccctgc 660
atgctgcttt atttgcttct ccctccccaa ccacctcatg gtatatttaa gagtgaaagg 720
gacaaactag taggtttgtc aagtttaata taaagcactg atgtaacttg ctaggtaaac 780
```

433

```
ggaaagataa gttctaactg cctactatcc matgtccagt taattggtgt cttccccct 840
catttgctct cttccctaaa atgtgtccca gatgccttca tttgctgttt tacttctatg 900
ttctgctttt cctcctctct tkgttcccct cckgtctatc cattgagttt atgaaatgga 960
agagttaact gcatgcacta gtgtttgrag ggtgttgtgg tttgtctttc taattaggtg 1020
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c                                                                  1741
```

<210> 512
<211> 1530
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1508)
<223> n equals a,t,g, or c

<400> 512
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cggcagtgag ggcggccggg cccctaagcg gctcaagact gacaacgccg gcgaccagca 180
cggaggcggc ggcggtggcg gtggaggagc cggggcggcg ggcggcggcg gcggtgggga 240
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tgacggtgtg gtggaagcag accttgtgga ggccttgcag gagtttggac ccatcagcta 360
tgtggtggta atgcctaaaa agagacaagc actggtggag tttgaagatg tgttgggggc 420
```

```
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cgtgaacagt gtgcttctct ttaccatcct gaaccccatt tattcgatca ccacggatgt 600
tctttacact atctgtaatc cttgtggccc tgtccagaga attgtcattt tcaggaagaa 660
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```

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<211> 2999
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2606)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2996)
<223> n equals a,t,g, or c


<400> 513
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ctggcaatct tttccgtttt tttgtttttct gttttccatt cgcatgcccc ttagcgtacc 180
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cgtggtggta gccgttgggt tgggaaagtg agggattttt ggcctcgttt ctcctgcttc 480
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```

```
agcaccaaaa agcaaagcat tttaaatgcc atatatgtca caagaaattg tatacaggac 660
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caatacctgg aagaacagac atagagttgg aaatatatgg tatggaaggt attccagaaa 780
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<210> 514
<211> 2048
<212> DNA
<213> Homo sapiens

<400> 514

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ggactttata tgttcaagtg caggaattgg aaagttggac ttgtttttcta tgatccaaaa 180
cagccctata agaaggttgg aaaaggagga actatatagc agcctttgct attttctgct 240
```

```
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gctcattgtt cagactgatt gcccctcacc tgaatccact ctctgtattc atgctcttgg 420
caatttcttt gactttcttt taagggcaga agcattttag ttaattgtag ataaagaata 480
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ttacttttcc gtttcattct aaaggtagtt aagatgaaat ttatatgaaa gcatttttat 1980
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aaaaaaaa                                                     2048
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<210> 515
<211> 3300
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c
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437

<400> 515

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gtctgccttc aagaaaagac agaagtagaa agggtggtgg ctgactgtct gacaaattgt 120
tatcangtat gcaggaagta tatccttctc caaaatatca tacttgcatc accaggtaga 180
cacatttcct tctacacaga attatcttca gagcttctta aagcaaataa agcctgcttc 240
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```

```
gaaactgaag gaaggataca catggagaag actgtgtgga tccaccagaa gatggccatc 3000
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```

<210> 516
<211> 3425
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<400> 516
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gagcagttcc acccaataac tctaatgcag cggaagatga cctgcccaca gtggagcttc 180
agggcgtggt gccccggggc gtcaacctgc aagatgatgc tgtgtatctg gacaatgaga 240
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cccacatatt tcaaaaacat gcttttccaa acccaggcta ttcggcaagg aagttagttt 2040
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atgcctgcca aattttagat ttaccttgtt agaagaggtg gccccatatt aacaaattgc 2460
atttgtggga aacttaacca cctacaagga gataagaaag caggtgcaac actcaagtct 2520
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caggagccaa tatcccttac tttaaccctt tctgggatgc aatactagga agtaaagtga 2640
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ttaaactggc ttaacttagt atattattat taattacaat gtaatagaag cttaaaataa 3360
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ggggc                                                             3425
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<210> 517
<211> 1358
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1356)
<223> n equals a,t,g, or c

<400> 517
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ttagggtaac tttcctatat tgagcccatg ggttacaagg atttgcaata tattgttcca 120
tttacagcca atacaggttt aatcgatgtt caatattggt ttaggaaatt taaggccttc 180
taaatcataa tagctctttc atgtctaaaa ccattttatg atattgccaa aatgtgatag 240
gaaacctact cattaaattg ttaaactttt taatgactat gtgaagatat gaattgtttc 300
ctgaagataa tactcttaat tgagttgtat tgtacttctt aggcaaagca gtgtaaaact 360
gtatcaatta aggcttgtga gtagtgattt ccactgggc atcagagtct tggctgggct 420
gaatctgctg cttgttggtt cagtgtttct tatgaacaag agccacagta cagagcttca 480
agttatttaa aatactaagt catcttacgt ttccatttta ttaacgggat gttgcaatcg 540
```

440

```
tttgtaaact aataaactta taaagtgatt ggcacaaaga ctccttgagc aaaagctgtg 600
cagttaagta caaaaagata cttaatttgg agactcttac agtaattttt gccatgtcaa 660
aacaatggct tttacattga aagattaata gaaactctac atatgttaat ttttttatag 720
aacctgactc aaatcaaggt actctccatt ttattgcctt acctgaatca gtcctttttg 780
gttggtaata gatttttta tacacccacg tttgatttaa aagtaaattc tagttcttaa 840
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aagtgtttct tgtgcattag ctttgagatt cagtttttaa ctttgtaaac cacatctgag 960
agacttgtca tttctacatt gtgtgtgttt aatttctttt gattccattt tggttaagag 1020
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actgatagct gcacatttgg catgctttgt ttaatggatt ttatttttaa ttgcagattt 1260
atttggcaat gtacagtaaa ttttgtaaac ttgcatcaag tttatgaata aagaaccatt 1320
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```
<210> 518
<211> 1368
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1347)
<223> n equals a,t,g, or c

<400> 518
gcggattgca acacatgcag ctgcctggag agagggagcc ggtgtcctac gtcagagccg 60
ccgccgccg ggagccgccg ccgggagga gcagccgctg ccgcccagga ctgggcccctt 120
agggaggagg aggcgagaag atggcggacg accccagtgc tgccgacagg aacgtggaga 180
tctggaagat caagaagctc attaagagct tggaggcggc ccgcggcaat ggcaccagca 240
tgatatcatt gatcattcct cccaaagacc agatttcacg agtggcaaaa atgttagcgg 300
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atgagtttgg aactgcatct aacattaagt cacgagtaaa ccgcctttca gtcctgggag 360
ccattacatc tgtacaacaa agactcaaac tttataacaa agtacctcca aatggtctgg 420
ttgtatactg tggaacaatt gtaacagaag aaggaaagga aaagaaagtc aacattgact 480
ttgaaccttt caaaccaatt aatacgtcat tgtatttgtg tgacaacaaa ttccatacag 540
aggctcttac agcactactt tcagatgata gcaagtttgg attcattgta atagatggta 600
gtggtgcact ttttggcaca ctccaaggaa acacaagaga agtcctgcac aaattcactg 660
tggatctccc aaagaaacac ggtagaggag gtcagtcagc cttgcgtttt gcccgtttaa 720
gaatggaaaa gcgacataac tatgttcgga aagtagcaga gactgctgtg cagctgttta 780
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attgccaagg cacagaagag gagaaaattc tctatctaac tccagagcaa gaaaaggata 1200
aatctcattt cacagacaaa gaganccgga caggaaccat gascttatcg agagcatgsc 1260
cctktttgga awggkttgst aacaactwta aaaaattggg acttccttgg naaattggcc 1320
caattaattc ccnanaaagg ggtcaanttt ggaaaagaat tgggggaa         1368
```

<210> 519
<211> 933
<212> DNA
<213> Homo sapiens

<400> 519
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ctctactgga aaagaaacag taaatgccac cttcccggta gctatagtaa tgctgcgggc 120
cattagagat ttcttctgga aaactggaaa caagataggg tttaaaccag caggaggcat 180
ccgcagtgca aaggattccc ttgcttggct ctctcttgta aaggaggagc ttggagatga 240
gtggctgaag ccagaactct ttcgaatagg tgccagtact ctgctctcgg acattgagag 300
gcagatttac catcatgtga ctggaagata tgcagcttat catgatcttc caatgtctta 360
aatcagtcac cagttccaga aaagttcttt acgacaatgt ttaaaaatta tttttctacg 420
taattgctaa aattatttaa ttaaaaaatt gggcagtagg taactggcat tcctctcttt 480
aaaatttcta ccgaacttaa tggaatggaa aaagcaaact catccacatg tggtactcat 540
ttcaggcaca tctgaaatga tcttaattac tagaagatct gcactattaa ctttgtgaag 600
agtttctcct aaaaacttta agtaaaatgt taatggtagc tttgataaca tcaaattcta 660
agggagaaaa aaacaatatt aaaccgccca agcagtgtgc cctagcagag gaaaatgcaa 720
catctcgcaa gcgctgctgt aacgacttca ggagtcactg attcagcact aatttcctgc 780
tgtgaaaact catctttcat ttttgccgtg gataggcgct tttattaatt gttgtcctaa 840
tgaaatttct gacattgtca tatacaacga tgaatatcat taaaatttttt aaaataaaaa 900
aaaaaaaaaa aaaaaactcg aggggggggcc cgg                         933
```

<210> 520
<211> 1430
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1428)
<223> n equals a,t,g, or c

<400> 520
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ctgtctcagg agatgaattg atgaccctgg ctcataaaca catnntcaag actgtggatt 120
tcacgcagga tagtaattat ttgttaaccg ggggacagga taaactgtta cgcatatatg 180
acttgaacaa acctgaagca gaacctaagg aaattagtgg tcatacttct ggtataaaaa 240
aagctctgtg gtgcagtgag gataaacaga ttctttctgc tgatgacaaa actgttcgac 300
tttgggatca tgctactatg acagaagtga aatctctaaa ttttaatatg tctgttagta 360
gtatggaata tattcctgag ggagagattt tggttataac ttatggacga tctattgctt 420
ttcatagtgc agtaagtttg gacccaatta aatcctttga agctcctgca accatcaatt 480
ctgcatctct tcatcctgag aaagaatttc ttgttgcagg cggtgaagat tttaaacttt 540
ataagtatga ttataatagt ggagaagaat tagaatccta caaggacac tttggtccta 600
ttcactgtgt gagatttagt cctgatggag aactctatgc cagtggttca gaagatggaa 660
cattgagact atggcaaact gtggtaggaa aaacgtatgg cctttggaaa tgtgtgcttc 720
ctgaagaaga tagtggtgag ctggcaaagc caaagattgg ttttccagag acaacagaag 780
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cagagaaaag catcagcctt ccagagttac tgtctgctta aggcagaaac agcagtaaat 960
aatgaggaaa atgaattagc tccagtgctg gaacaactaa ctaacttggt gttacctgta 1020
agtgaaaact caagtgtcag atgaagggag gtggagttat cctcttatag tacagtggcc 1080
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ttcttgtagc tgtttatgtt aaatatggaga agaaaactat attggctgat ttttctgat 1200
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agttgtctaa ataaaatgcc tctaaaacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaanaa   1430

<210> 521
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1166)
<223> n equals a,t,g, or c

443

<400> 521
gcccacgcgt ccgcccacgm gyccgcgtgg agttgtgaac gccgcggact ccggagccgc 60
acaaaccagg gctcgccatg aagccaggat tcagtccccg tgggggtggc tttggcggcc 120
gaggggcttt tggtgaccgt ggtggtcgtg gaggccgagg gggctttggc ggggggccgag 180
gtcgaggcgg aggctttaga ggtcgtggac gaggaggagg tggaggcggc ggcggcggtg 240
gaggaggagg aagaggtggt ggaggcttcc attctggtgg caaccggggt cgtggtcggg 300
gaggaaaaag aggaaaccag tcggggaaga atgtgatggt ggagccgcat cggcatgagg 360
gtgtcttcat ttgtcgagga aaggaagatg cactggtcac caagaacctg gtccctgggg 420
aatcagttta tggagagaag agagtctcga tttcggaagg agatgacaaa attgagtacc 480
gagcctggaa cccctttccgc tccaagctag cagcagcaat cctgggtggt gtggaccaga 540
tccacatcaa accggggggct aaggttctct acctcggggc tgcctcgggc accacggtct 600
cccatgtctc tgacatcgtt ggtccggatg gtctagtcta tgcagtcgag ttctcccacc 660
gctctggccg tgacctcatt aacttggcca agaagaggac caacatcatt cctgtgatcg 720
aggatgctcg acacccacac aaataccgca tgctcatcgc aatggtggat gtgatctttg 780
ctgatgtggc ccagccagac cagacccgga ttgtggccct gaatgcccac accttcctgc 840
gtaatggagg acactttgtg atttccatta aggccaactg cattgactcc acagcctcag 900
ccgaggccgt gtttgcctcc gaagtgaaaa agatgcaaca ggagaacatg aagccgcagg 960
agcagttgac ccttgagcca tatgaaagag accatgccgt ggtcgtggga gtgtacaggc 1020
cacccccaa ggtgaagaac tgaagttcag cgctgtcagg attgcgagag atgtgtgttg 1080
atactgttgc acgtgtgttt ttctattaaa agactcatcc gtcaaaaaaa aaaaaaaaa 1140
argggggggcc gctaggggnt ccaagntta   1169

<210> 522
<211> 2162
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2139)
<223> n equals a,t,g, or c

<400> 522
gccgggcgcg gagaagtcgg ggcggcggc agagaggccg ggacgcggac cgggccgggg 60
cgcccacagc cgcccgacgg cgcccagaga gcgcgcgccc cgcagccccg cgcctagccc 120

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gccgggcatg gggcgcgcgg cagccgctga agccccggcc tggcccggnc gcacccggcc 180
ggaggcggag ggcagagcgc gcgcccagtt gcccgggcac caaatcggag cgcggcgtgc 240
gggagggccc agagcaggac tggaaatgtc ctggccgcgc cgcctcctgc tcagatacct 300
gttcccggcc ctcctgcttc acgggctggg agagggttct gccctccttc atccagacag 360
caggtctcat cctaggtcct tagagaaaag tgcctggagg gcttttaagg agtcacagtg 420
ccatcacatg ctcaaacatc tccacaatgg tgcaaggatc acagtgcaga tgccacctac 480
aatcgagggc cactgggtct ccacaggctg tgaagtaagg tcaggcccag agttcatcac 540
aaggtcctac agattctacc acaataacac cttcaaggcc taccaatttt attatggcag 600
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gatctgccac acagaggcgg tggccgagaa gctcggccag caggtgaacc gcacatgccc 780
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cttcatcttc catgacaaca acaacacctg ggagggccac tactaccact actcagaccc 1260
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cgagggctcc tggcaggtgg gcatccagca ggatgtgacc cacaccaatg gctgcgtggc 1500
cctgggcatc aaactacctc acacggagta cgagatcttc aaaatggaac aggatgcccg 1560
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gatttkcttt accaaaagaa aagacattta ttcttttgat gcacttgaat gccagagaac 1920
tgtccttctt tttctcctct ccctccctcc cagccctga gtcatgaaca gcaaggagtg 1980
tttgaagttt ctgctttgaa ctccgtccag cctgatccct ggcctgagca acttcacaac 2040
agtaattgca ctttaagaca gcctagagtt ctggacgagc gtgtttggta gcagggatga 2100
aagctaccww attttttct cttrattatt tgnacnaant tgagtagaag ttatttccct 2160
tt                                                               2162
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<210> 523
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (758)
<223> n equals a,t,g, or c

445

<400> 523
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tctctctccc tctcttcctt cccccctgccc caaaactaaa gtaaaataac gttaactgcc 60
cgtttttctg taaccagcag accttatcta tactcccaat tccaattcct tgtaaacata 120
ctttgtaaag tcctgtaaga tcctgtctcc tttgccatga cgctgcaagg tcataaagta 180
gataaaacct aagttgcaat tccggttttc ctcaagatct aagacatgtt acaaatggtt 240
aattgccttt gtttctcgct ttggtaacat cttcccgcct caggtatttc ccgccttgaa 300
gagtttaaaa ggcaatccta taatctaact ctggctaccc attctggacc ccctccatgc 360
tttggaagct ttgtactttc actctgctca ataaagcctr cagctttttc tcactctcag 420
tccatgtctc tttcactcac tgnggtcagc ttccacacca tttctttggt gtggcttggc 480
aagaacctca ggtgttacat cttggcgagc cagacaggag actccagaaa aggatcaaag 540
ccatcaagct acaaatratc ttacaaatgg aacctcaaat gagctcagct cacggcttct 600
accgaggacc cctggwtcaa cccgctggtc cctcaattac cctagaaaat tcccctctgg 660
aggacaccaa actgcagggc cccttyttca cccctaacca gcaggaagta gccagaacgg 720
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gaggtgccca attgggttt                                            799
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<210> 524
<211> 1722
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<400> 524
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tctggggcgg ctcagttctg cggtgccagg gagtggagca gagctcagcc ccgtcccaaa 120
yacagatggg accatgaact ccggacacag cttcagccag accccctcgg cctccttcca 180
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gcagaatctc aacgaccgcc tggcctccta cctggagaag gttcgcgccc tggaggaggc 420
caacatgaag ctggaaagcc gcatcctgaa atggcaccag cagagagatc ctggcagtaa 480
gaaagattat tcccagtatg aggaaaacat cacacacctg caggagcaga tagtggatgg 540
taagatgacc aatgctcaga ttattcttct cattgacaat gccaggatgg cagtggatga 600
yttcaacctc aagtwtgaaa atgaacactc ctttaaaaaa gacttggaaa ttgaagtcsa 660
gggcctccga aggaccttag acaacctgac cattgtcaca acagacctag aacaggaggt 720
ggaaggaatg aggaaagagc tcattctcat gaagaagcac catgagcagg aaatggagaa 780
gcatcatgtg ccaagtgact tcaatgtcaa tgtgaaggtg gatacaggtc ccagggaaga 840
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tccagccact gtgcagagca gacaaggtga catccacgaa ctgaagcgca cattccaggc 1020
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cgagacccag tctcgktact cctgcaagct ccaggacatg caagagatca tctcccacta 1140
tgaggaggaa ctgacgcagc tacgccayga actggagcgg cagaacaatg aataccaagt 1200
gctgctgggc atcaaaaccc acctggagaa ggaaatcacc acgtaccgac ggctcctgga 1260
gggagagagt gaagggacac gggaagaatc aaagtcgagc atgaaagtgt ctgcaactcc 1320
aaagatcaag gccataaccc aggagaccat caacggaaga ttagttcttt gtcaagtgaa 1380
tgaaatccaa aagcacgcat gagaccaatg aaagtttccg cctgttgtaa aatctatttt 1440
cccccaagga aagtccttgc acagacacca gtgagtgagt tctaaaagat acccttggaa 1500
ttatcagact cagaaacttt tatttttttt ttctgtaaca gtctcaccag acttctcata 1560
atgctcttaa tatattgcac ttttctaatc aaagtgcgag tttatgaggg taaagctcta 1620
ctttcctact gcagccttca gattctcatc attttgcatc tattttgtag ccaataaaac 1680
tccgcactag caaaaaaaaa aaaaaaaaaa aaaaagttcg ac                    1722
```

<210> 525
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (557)
<223> n equals a,t,g, or c

<400> 525
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tcccgggccc gagggcatca gacggcggct gattagctcc ggtttgcatc acccggaccg 60
ggggattagc tccggtttgc atcacccgga ccggggggatt agctccggtt tgcatcaccc 120
ggaccggggg ccggcgcgc acgagactcg cagcggaagt ggaggcggct ccgcgcgcgt 180
ccgctgctag gacccgggca gggctggagc tgggctggga tcccgagctc ggcagcagcg 240
cagcgggccg gcccacctgc tggtgccctg gargctctga gccccggcgg cgcccgggcc 300
cacgcggaac gacggggcga gatgcgagcc acccctctgg ctgctcctgc gggttccctg 360
tccaggaaga agcggttgga gttggatgac aacttagata ccgagcgtcc cgtccagaaa 420
cgagctcgaa gtgggcccca gcccagactg ccccctgcc tgttgcccct gagcccacct 480
actgctccag atcgtgcaac tgctgtggsc actgnctccc gtyttnggsc ctatgtcccty 540
ctkgaagccc gaagaaggc gg                                           562
```

<210> 526
<211> 2023
<212> DNA

447

<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<400> 526
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aaagtgataa cncaactaat ggttgtggac ttgaatctyc aggaaatact gttacacctg 60
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tggagaaatt atttcaaggt cagctggtat taaggacgcg ttgcttggaa tgtgaaagtt 180
taacagaaag aagagaagat tttcaagaca tcagtgtgcc agtacaagaa gatgagcttt 240
ccaaagtaga ggagagttct gaaatttctc cagagccaaa aacagaaatg aagaccctga 300
gatgggcaat ttcacaattt gcttcagtag aaaggattgt aggagaagat aaatatttct 360
gtgaaaactg ccatcattat actgaagctg aacgaagtct tttgtttgac aaaatgcctg 420
aagttataac tattcatttg aagtgctttg ctgctagtgg tttggagttt gattgttatg 480
gtggtggact ttccaagatc aacactcctt tattgacacc tcttaaattg tcactagaag 540
aatggagcac aaagccaact aacgacagct atggattatt tgcggttgtg atgcatagtg 600
gcattacaat tagtagtggg cattacactg cttctgttaa agtcactgac cttaacagtt 660
tagaactaga taaaggaaat tttgtggttg accaaatgtg tgaaataggt aagccagaac 720
cattgaatga ggaggaagca aggggtgtgg ttgagaatta taatgatgaa gaagtgtcaa 780
ttagagttgg tggaaataca cagccaagta aagtttgaa caaaaaaaat gtagaagcta 840
ttggacttct tggaggacaa aagagcaaag cagattatga gctatacaac aaagcctcta 900
atcctgataa ggttgctagt acagcgtttg ctgaaaatag aaattctgag actagtgata 960
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cattttcctc agtagagact agtgatgcat tagcttctgg gaacaaactt gtatcggttc 1440
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tttgcttttt aaaataaagt gctcgtattt gtattctcca tattttggag taattatcta 1560
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tagttttata agagtcatga agctaaatcc ttgggctatg tcagaggcac aaagtctaga 1680
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agaaaacctg gacagttcgc ttctacacaa gaattttata tgtatttatg aagatgattc 1800
tgtaccctag tatatctttt tgggcatgga ctaatttgta tctgtttaac tcatattctg 1860
cacgatctgt atatagtaca tcaaacttag aggtgtgacc ttaaatttaa cttttttaa 1920
aaactgggag gtcaataaaa tttaaactgc ttaactatgt atatgaatat ttgaattttt 1980
tacttgtata tttttataaa tacagctgag ttttcttaaa gcg            2023
```

<210> 527
<211> 2847
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (286)

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2842)
<223> n equals a,t,g, or c

<400> 527
ggcacaggtt attctgtgtc tttcatagta gaaaccttaa tgatcggtct gttgtagtga 60
actctttaaa aaggcgctat agaaaaccaa tttctgagta aaccagcaga cagcatgact 120
tgtaaatggt cttttaatta attaaaaaga aattagtcag ctacaagcat gaacatgtgg 180
aacgcttacc tttgtactag gcgtttttgt ttttgtttta atggcttttg gaatattata 240
gtattaacat ctggaaaact aggtaaattt atcttagaat taagtntttn gctccttttt 300
tgcagaaaaa gaacagcaag aagcgattga acacattgat gaagtacaaa atgaaataga 360
cagacttaat gaacaagcca gtgaggagat tttgaaagta gaacagaaat ataacaaact 420
ccgccaacca ttttttcaga agaggtcaga attgatcgcc aaaatcccaa attttttgggt 480
aacaacattt gtcaaccatc cacaagtgtc tgcactgctt ggggaggaag atgaagaggc 540
actgcattat ttgaccagag ttgaagtgac agaatttgaa gatattaaat caggttacag 600
aatagatttt tattttgatg aaaatcctta ctttgaaaat aaagttctct ccaaagaatt 660
tcatctgaat gagagtggtg atccatcttc gaagtccacc gaaatcaaat ggaaatctgg 720
aaaggatttg acgaaacgtt cgagtcaaac gcagaataaa gccagcagga agaggcagca 780
tgaggaacca gagagcttct ttacctggtt tactgaccat tctgatgcag gtgctgatga 840
gttaggagag gtcatcaaag atgatatttg gccaaaccca ttacagtact acttggttcc 900
cgatatggat gatgaagaag gagaaggaga agaagatgat gatgatgatg aagaggagga 960
aggattagaa gatattgacg aagaagggga tgaggatgaa ggtgaagaag atgaagatga 1020
tgatgaaggg gaggaaggag aggaggatga aggagaagat gactaaatag aacactgatg 1080
gattccaacc ttcctttttt taaattttct ccagtccctg ggagcaagtt gcagtctttt 1140
tttttttttt ttttttttcc ctcttgtgct cagtcgccct gttcttgagg tctcttttct 1200
ctactccatg gttctcaatt tatttggggg gaaatacctt gagcagaata caatgggaaa 1260
agagtctcta ccccttctg ttcgaagttc atttttatcc cttcctgtct gaacaaaaac 1320
tgtatggaat caacaccacc gagctctgtg ggaaaaaaga aaaacctgct cccttcgctc 1380
tgctggaagc tggagggtgc taggccctg tgtagtagtg catagaattc tagcttttttt 1440
cctcctttct ctgtatattg ggctcagaga gtacactgtg tctctatgtg aatatggaca 1500
gttagcattt accaacatgt atctgtctac tttctcttgt ttaaaaaaag aaaaaaaaac 1560
ttaaaaaaat ggggttatag aaggtcagca aagggtgggt ttgagatgtt tgggtgggtt 1620
aagtgggcat tttgacaaca tggcttctcc tttggcatgt ttaattgtga tatttgacag 1680
acatccttgc agtttaagat gacactttta aaataaattc tctcctaatg atgacttgag 1740
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tctattgtaa ttttgttcct gtttatttttt aaattttctt tttgtttcac tggaaaggaa 1860
agatgatgct cagtttaaa cgttaaaagt gtacaagttg ctttgttaca ataaaactaa 1920
atgtgtacac aaaggatttg atgcttttct ctcagcatag gtatgcttac tatgaccttc 1980
caagtttgac ttgtataaca tcactgtcaa acttgtcac cctaacttcg tattttttga 2040
tacgcacttt gcaggatgac ctcagggcta tgtggattga gtaatgggat ttgaatcaat 2100
gtattaatat ctccatagct gggaaacgtg ggttcaattt gccattggtt tctgaaagta 2160
ttcacatcat ttgggatacc agatagctca atactctctg agtacattgt gcccttgatt 2220
tttatctcca agtggcagtt tttaaaattg gcctttttacc tggatataaa ttaattgtgc 2280
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```
ctgccaccac catccaacag acctggtgct ctaatgccaa gttatacacg ggacagttgc 2340
tggcatgtct tcattggcta tataaaatgt ggccaagaag ataggctctc agtaagaagt 2400
ctgatggtga gcagtaactg tccctgcttt ctggtataaa gctctcaaat gtgaccatgt 2460
gaatctgggt gggataatgg actcagctct gtctgctcaa tgccattgtg cagagaagca 2520
ccctaatgca taagcttttt aatgctgtaa aatatagtcg ctgaaattaa atgccacttt 2580
ttcagaggtg aattaatgga cagtctggtg aacttcaaaa gcttttgat gtataaaact 2640
tgataaatgg aactattcca tcaataggca aaagtgtaac aacctatcta gatggatagt 2700
atgtaatttc tgcacaggtc tctgtttagt aaatacatca ctgtataccg atcaggaatc 2760
ttgctccaat aaaggaacat aaagatttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaaa aaaaaaaaaa anaaaaa                                    2847
```

<210> 528
<211> 816
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<400> 528
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aaaacgantg tgtaattaac anaggctgtg cgcatgaacg ttgccgttat ggttcgcgaa 60
ttttccccgg cgcccaatgc gagggagacg aaantatgta aatgagtgga ttctggctga 120
gctatcctat tggctatcgg gacaaaattt gcttgagcca atccaaagtg ctccgtggac 180
aatcgccgtt ctgtctataa aaaggtgaag cagcggcgtt ttcggcgact ttcccgatcg 240
ccaggcagga gtttctctcg gtgactacta tcgctgtcat gtctggtcgt ggcaagcaag 300
gaggcaaggc ccgcgccaag gccaagtcgc gctcgtcccg cgctggcctt cagttcccgg 360
taggcgagtg catcgctctg cgcaaaggca actacgcgga gcgagtgggg gccggcgcgc 420
ccgtctacat ggctgcggtc ctcgagtatc tgaccgccga gatcctggag ctggcgggca 480
acgcggctcg ggacaacaag aagacgcgca tcatccctcg tcacctccag ctggccatcc 540
gcaacgacga ggaactgaac aagctgctgg gcaaagtcac catcgcccag ggcggcgtct 600
tgcctaacat ccaggccgta ctgctcccta agaagacgga gagtcaccac aaggcaaagg 660
gcaagtgagg ctgacgtccg cccaagtggc ccagcccggc ccgcgtctcg aaggggcacc 720
tgtgaactca aaaggctctt ttcagagcca cccacgtttt caaataaaag agttgttaat 780
gctggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa                          816
```

<210> 529
<211> 885
<212> DNA
<213> Homo sapiens

450

<400> 529
ggcagttacc ggtgccgtaa ttcccgggtc ggacccacgc gctctgtcgt ggcgcggctt 60
cccgcggtct tctctgcaaa tgggctccgt ggcctagcgc ccccgtcccc gccacccgtg 120
atcgtgcgcc gaggcccgcg aggggtcgcc gcccagatcc caccagccag caagctaaag 180
catggcggcc atcccctcca gcggctcgct cgtggccacc cacgactact accggcgccg 240
cctgggttcc acttccagca acagctcctg cagcagtacc gagtgccccg gggaagccat 300
tccccacccc ccaggtctcc ccaaggctga cccgggtcat tggtgggcca gcttcttttt 360
cgggaagtcc accctcccgt tcatggccac ggtgttggag tccgcagagc actcggaacc 420
tccccaggcc tccagcagca tgaccgcctg tggcctggct cgggacgccc cgaggaagca 480
gcccggcggt cagtccagca cagcagcgc tgggcccccg tcctgacctg agcggttacc 540
accagcccca ggcctgcgga ggcgctagtc caccagagcc cctyccgcc cctctcccca 600
ctccgcatcc ctcgccccc tccccacctc ccaccccca ccctgtaaac taggcggctg 660
cagcaagcag accttcgcat caacacagca gacaccaaaa accagtgaga gccccgctct 720
ctaccgcccg gccccagcac tcgctagctt tcctgacacc tggaactgtg cacctggcac 780
caagcggaaa ataaactcca agcagccagt agccccgatg gtgtgtgcct gagctgtgtg 840
gcccgaggtt ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa   885

<210> 530
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (693)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (695)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (715)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (730)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (741)
<223> n equals a,t,g, or c

<400> 530
ggtacctgac agtaccggtc ggaattcccg ggtcgaccca cgcgtccgct gctgctctta 60
aaggtacagg cctcagggtc cctgctgtag acggggcggg ggagagtacg atgggtgggg 120

451

```
cgtggtgggt cgtagggcgc tcgagatgga gcccccagct tccttgatgg atcgcggggc 180
gcgagtgccc tagacaagcc ggagctggga ccggcaatcg ggcgttgatc cttgtcacct 240
gtcgcagacc ctcatccctc ccgtgggagc cccctttgga cactctatga ccctggaccc 300
tcggggggacc tgaacttgat gcgatgggag gctgtgcagg ctcgcggcgg cgcttttcgg 360
attccgaggg ggaggagacc gtcccggagc cccggctccc tctgttggac catcagggcg 420
cgcattggaa gaacgcggtg ggcttctggc tgctgggcct ttgcaacaac ttctcttatg 480
tggtgatgct gagtgccgcc cacgacatcc ttagccacaa gaggacatcg ggaaaccaga 540
gccatgtgga cccaggccca acgccgatcc cccacaacag ctcatcacga tttgactgca 600
actctgtctc tacggctgct gtgctcctgg cggacatcct ccccacactc gtcatcaaat 660
tgttggstyc tyttggsctt cacctgctgc ccntnaccgt tgaggatgct gtgantctct 720
gtgctttatn ggggacagct ng                                          742
```

<210> 531
<211> 525
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (502)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<400> 531
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gtcggcattc ccgggtcgac ccacgcgtcc gggcccgttt ccggcggcgt cgcgcgtttg 60
cgarcctcgg gtggtcctca gggagggtct ctcggccaga acacgtggat gcccacccac 120
cactgagcct catggaggtg gtaacatttg gcgatgtggc tgtgcacttc tctcgggagg 180
agtggcagtg tctggaccct ggccagaggg ccctctacag ggaagtgatg ctggagaacc 240
acagcagtgt ggctggacta gcaggattcc tggttttcaa gcctgagctg atctctcggc 300
tggagcaggg agaagagcca tgggtcctcg acctgcargg agcagagggg acagaggcac 360
caargacctc caagacaggt gaggcttaga tcccatcgca gagaagccct ggggtgarga 420
gaaactkcar gagggctca caactgtrgg tagctgtagg tgartcgcgg gggctacact 480
kggatgcctg ggaatgctac tnggggaaan cagcatccaa canct            525
```

<210> 532
<211> 1925
<212> DNA
<213> Homo sapiens

<400> 532
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gtggtctgag gccggtacag ctgcgcgtct gcgggaatag gtgcagcggg cccttggcgg 60
gggactctga gggaggagct ggggacggcg accctaggag agttctttgg ggtgactttc 120
```

```
aagatggact ctactctaac agcaagtgaa atccggcagc gatttataga tttcttcaag 180
aggaacgagc atacgtatgt tcactcgtct gccaccatcc cattggatga ccccactttg 240
ctctttgcca atgcaggcat gaaccagttt aaacccattt tcctgaacac aattgaccca 300
tctcacccca tggcaaagct gagcagagct gccaataccc agaagtgcat ccgggctggg 360
ggcaaacata atgacctgga cgatgtgggc aaggatgtct atcatcacac cttcttcgag 420
atgctgggct cttggtcttt tggagattac tttaaggaat tggcatgtaa gatggctctg 480
gaactcctca cccaagagtt tggcattccc attgaaagac tttatgktac ttactttggc 540
ggggatgaag cagctggctt agaagcagat ctggaatgca aacagatctg caaaatttgg 600
gaaatgattc tggggaccat tctgaccaca tgcattacta tcaggtaaa aaatatttcc 660
gagataggag gggaggtggc agaaattcag actggtcttc agatacaaat cgacaaggac 720
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tggcaggaac ttattatgac cccaataccc agcaagaagt ctatgtgccc caggatcctg 840
gattacctga ggaagaagag atcaaggaaa aaaaacccac cagtcaagga aagtcaagta 900
gcaagaagga aatgtctaaa agagatggca aggagaaaaa agacagagga gtgacgaggt 960
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ctcctactgt gaagaaggaa gagagtcccc ctccacctaa agtggtaaac ccactgatcg 1080
gcctcttggg tgaatatgga ggagacagtg actatgagga ggaagaagag gaggaacaga 1140
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agaatgaaga agacaaactc actgactgga ataaactggc ttgtctgctt tgcagaaggc 1260
agtttcccaa taaagaagtt ctgatcaaac accagcagct gtcagacctg cacaagcaaa 1320
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gagaacgaga gggaaagttt aaaggaagag gaaatgatcg cagggaaaag ctccagtctt 1440
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ttgttgataa agaagatatc gacactagca gcaaaggagg ctgtgtccaa caggctactg 1560
gctggaggaa agggacaggc ctgggatatg gccatcctgg attggcttca tcagaggagg 1620
ctgaaggccg gatgaggggc cccagtgttg gagcctcagg aagaaccagc aaaagacagt 1680
ccaacgagac ttaycgagat gctgttcgaa gagtcatgtt tgctcgatat aaagaactcg 1740
attaagaaag gagacaagtt ccatgggata caacctccct cttgttttgt ttgtctctcc 1800
ttttcttttg ttactgttct tgctgctaga actttttttaa ataaactttt tttcaatgtg 1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 1920
ggggg                                                        1925
```

<210> 533
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

453

<400> 533
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catagaggca aacggtacac tgacagtacc gtccggaatt cccgggtcga cccacgcgtc 60
cggtccgcaa agcctgagtc ctgtcctttc tctctccccg gacagcatga gcttcaccac 120
tcgctccacc ttctccacca actaccggtc cctgggctct gtccaggcgc ccagctacgg 180
cgcccggccg gtcagcagcg cggccagcgt ctatgcaggc gctgggggct ctggttcccg 240
gatctccgtg tcccgctcca ccagcttcag gggcggcatg gggtccgggg gcctggccac 300
cgggatagcc gggggtctgg caggaatggg agcatccaga acgagaagga gaccatgcaa 360
aagctgaacg accgcctggc ctcttacctg gacaaaatga aggagcctgg agaccgagaa 420
accggaggct ggaaagcaaa aacccgggag cactttggag aagaagganc ccaggtcaga 480
gnctggnagc cattaattca ag                                        502
```

<210> 534
<211> 1800
<212> DNA
<213> Homo sapiens

<400> 534
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tcgacccacg cgtccggccg cgcgcgccac tgccaggcgg ggatcgggcg gcgcgagctg 60
aggtggtgag ggactagctc ccggatgtgg agaagctggg gagaaggcgt gggaggaaga 120
tggactcggt ggagaagggg gccgccacct ccgtctccaa cccgcggggg cgaccgtccc 180
ggggccggcc gccgaagctg cagcgcaact ctcgcggcgg ccagggccga ggtgtggaga 240
agcccccgca cctggcagcc ctaattctgg cccggggagg cagcaaaggc atccccctga 300
agaacattaa gcacctggcg ggggtcccgc tcattggctg ggtcctgcgt gcggccctgg 360
attcaggggc cttccagagt gtatgggttt cgacagacca tgatgaaatt gagaatgtgg 420
ccaaacaatt tggtgcacaa gttcatcgaa gaagttctga agtttcaaaa gacagctcta 480
cctcactaga tgccatcata gaatttctta attatcataa tgaggttgac attgtaggaa 540
atattcaagc tacttctcca tgtttacatc ctactgatct tcaaaaagtt gcagaaatga 600
ttcgagaaga aggatatgat tctgttttct ctgttgtgag acgccatcag tttcgatgga 660
gtgaaattca gaaaggagtt cgtgaagtga ccgaacctct gaatttaaat ccagctaaac 720
ggcctcgtcg acaagactgg gatggagaat tatatgaaaa tggctcattt tattttgcta 780
aaagacattt gatagagatg ggttacttgc agggtggaaa aatggcatac tacgaaatgc 840
gagctgaaca tagtgtggat atagatgtgg atattgattg gcctattgca gagcaaagag 900
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gtaaatgcaa gtaagaacat catcaaagtt cactttgtat tgtaccctgt aaaactgtgt 1680
gtttgtgtgc tttcaaagat gttgggattt tatttatctg gggacagtgt gtatggtaag 1740
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```

<210> 535
<211> 2497

454

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2493)
<223> n equals a,t,g, or c

<400> 535
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gtagcggtgg tgctgggcga cgtgggccgc agcccccgta tgcagtacca cgcgctgtcg 180
ttggccatgc acggcttctc ggtgaccctc ctggggttct gcaactccaa accccatgat 240
gagctcttgc agaacaacag aattcagatt gtggggttga cagaacttca gagtcttgca 300
gttgggcccc gagttttcca gtacggagtc aaagttgtac ttcaggctat gtacttgctg 360
tggaagttga tgtggaggga gccaggtgcc tatatctttc tccagaaccc cccaggtctg 420
cctagcattg ctgtctgctg gttcgtgggc tgcctttgtg aagcaagct cgtcattgac 480
tggcacaact atggctactc catcatgggt ctggtgcatg gccccaacca tccctcgtt 540
ctgctggcca agtggtacga gaagttcttt gggcgcctgt cccacctgaa cctgtgtgtt 600
accaatgcta tgcgagaaga cctggcggat aactggcaca tcagggctgt gaccgtctac 660
gacaagcccg catctttctt taaagagaca cctctggacc tgcagcaccg gctcttcatg 720
aagctgggca gcatgcactc tccgttcagg gcccgctcag aacctgagga cccagtcacg 780
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455

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aaaattcttc ccatgagagt gacttgattc tcacaatccc gttggagtcg tgtgtgagtc 2160
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ctggcacgtc tctgggttgc ggacrgtaaa ggccaygtag acctcaggag cccgctggtg 2340
ctcccagcag gcagccagcc tccgcaggac sccgaccags gacaygatgg cttctgggca 2400
atacagcacg tctacggtga aagcttcagg ttactgctgt aatgacaaca tctggctgga 2460
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```

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<210> 536
<211> 4090
<212> DNA
<213> Homo sapiens

<220>
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<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2475)
<223> n equals a,t,g, or c

<400> 536
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cctgtggctt ccagtcagtc cagcccgcac ctctcccatg ggagggcctg aragcgcggg 120
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aaacaacgag ggtgagggt accccttcta cgaggtcctg ggcctggtca ccctggagga 360
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ccgccattac ctgtacaccc gaaataagcc ggccgactac ttcatcctca tcctgcaggg 720
gaaggtggag gtggaggcag ggaaggagaa catgaagttt gagacgggcg ccttctccta 780
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actggaaggg cagtgggctt cagcaaattg cccctcctcc ctacccatgg gactgaaaga 3900
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457

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agcttgatcc aaaagtatga gtaatattgt tttataacat gcagctgcct tttcgtccac 3960
acctacaggc tagtggtttc aaagttggag tgttcatccc ttgaagaacc tgagttacgt 4020
cactataccc actctcaaag ttgcagctct gcaggggact cccatggtgc tgtacaggtg 4080
ctactctgcc                                                       4090
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<210> 537
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<400> 537
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gcgctcgtgt gcgctcctgg gcgctcgccg ccgccgctgc cgccgcgcgc ctttgagtca 120
gcaaactccg cggcccgcaa gcccggctcg gcccggccct gctctgttct gcccggagga 180
gccgcccatt gatcgtgtcc tgtgctgaag atgtttccgg aacaacagaa agaggaattt 240
gtaagtgtct gggttcgaga tcctaggatt cagaaggagg acttctggca ttcttacatt 300
gactatgaga tatgtattca tactaatagc atgtgtttta caatgaaaac atcctgtgta 360
cgaagaagat atagagaatt cgtgtggctg aggcagagac tccaaagtaa tgcgttgctg 420
gtacaactgc cagaacttcc atctaaaaac ctgtttttca acatgaacaa tcgccagcac 480
gtggatcagc gtcgccaggg tctgggaaat ttcctcagaa aagtcctaca gatgcacttt 540
tgctttcaga tagcagcctt cacctcttcc ttacagagcc atctga          586
```

<210> 538
<211> 1250
<212> DNA
<213> Homo sapiens

<400> 538
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gcacacccag aggtcccctt ctcgccgccg cctgcaactg cgagggtagc ccggggccgc 120
ttggagtcgc ccggacctga gaggctgctg cactgggcct cagccagccc tccggatgct 180
ggtgctgcca tccccctgcc ctcagcctct ggcattttcc tccgttgaga ccatggaggg 240
ccctccccgt cggacttgcc gctccccaga acctggacct tcctcctcca tcggatctcc 300
ccaggcttca tctcctccaa ggcccaacca ctacctgctt attgacactc agggtgtccc 360
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ccagaaaaag tgctacagct gccccgtgtg ctcaagggtc ttcgagtaca tgtcctacct 480
tcagcgacac agcatcaccc actcggaggt aaagcccttc gagtgtgaca tctgtgggaa 540
ggcattcaag cgcgccagcc acttggcacg gcaccattcc attcacctgg cgggtggtgg 600
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gcacagccgg gtgcactctg gggaacgccc gtttcagtgt ccacactgcc ctcgccgctt 720
tatggagcag aacacactgc agaaacacac gcggtggaag catccatgag ccgggctgcc 780
gggtgcccca ggtaccacag gactttgcag ggagcctgga ctcctgtcca gacacctggt 840
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rgcagagccc tgcctgaagg aggaatccgt gagtaatctt caggtcctcc gtgttctgga 960
gctgagatgg gaatgagccc ctacacagaa tggagtcctc tagcctaaag atatcagctg 1020
ttccatggca gagccttgac tggatggagg tggggagtgt ggtgtgtaaa gtctctggcc 1080
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458

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tcataaaagg tggctgtggg tcgtcaggaa tctgcgccat cttcctgggg cttctgcgct 1140
gttgttgggg aagggacccc agtcctgcct tccacccccc aaccaggcct gagactgatc 1200
aaacaataaa cacgtttccc actctgaaaa aaaaaaaaaa aaaaaaaaaa            1250
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```
<210> 539
<211> 1350
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1349)
<223> n equals a,t,g, or c

<400> 539
ggcagagcac atgcgcaccg cagcgggtcg cgcgccctaa ggagtggcac tttttaaaag 60
tgcagccgga gaccagccta cagccgcctg catctgtatc cagcgccagg tcccgccagt 120
cccagctgcg cgcgccccc agtcccgcac ccgttcggcc caggctaagt tagccctcac 180
catgccggtc aaaggaggca ccaagtgcat caaatacctg ctgttcggat ttaacttcat 240
cttctggctt gccgggattg ctgtccttgc cattggacta tggctccgat tcgactctca 300
gaccaagagc atcttcgagc aagaaactaa taataataat tccagcttct acacaggagt 360
ctatattctg atcggagccg cgccctcat gatgctggtg ggcttcctgg gctgctgcgg 420
ggctgtgcag gagtcccagt gcatgctggg actgttcttc ggcttcctct tggtgatatt 480
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agtccaggag ttttacaagg acacctacaa caagctgaaa accaaggatg agccccagcg 600
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tgaagacaat ttgatacata ataaaaaatt atgacaatgt cctgnaaaaa aaaaaaaaaa 1320
aaaagggcgg ccgccccaga gganccccng                                 1350
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<210> 540
<211> 2509
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459

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<400> 540
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gtccaccgcg cggagattct cagcttcccc aggagcaaga cctctgagcc cgccaagcgc 120
ggccgcacgg cctcggcagc gatggcactg aaggactacg cgctagagaa ggaaaaggtt 180
aagaagttct tacaagagtt ctaccaggat gatgaactcg ggaagaagca gttcaagtat 240
gggaaccagt tggttcggct ggctcatcgg gaacaggtgg ctctgtatgt ggacctggac 300
gacgtagccg aggatgaccc cgagttggtg gactcaattt gtgagaatgc caggcgctac 360
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gtaaataaag atgtcctgga cgtttacatt gagcatcggc taatgatgga gcagcggagt 480
cgggaccctg ggatggtccg aagcccccag aaccagtacc ctgctgaact catgcgcaga 540
tttgagctgt attttcaagg ccctagcagc aacaagcctc gtgtgatccg ggaagtgcgg 600
gctgactctg tggggaagtt ggtaactgtg cgtggaatcg tcactcgtgt ctctgaagtc 660
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cggtttgacc tcctctggct gattcaggac cggcccgacc gagacaatga cctacggttg 1740
gcccagcaca tcacctatgt gcaccagcac agccggcagc cccctccca gtttgaacct 1800
ctggacatga agctcatgag gcgttacata gccatgtgcc gcgagaagca gcccatggtg 1860
ccagagtctc tggctgacta catcacagca gcatacgtgg agatgaggcg agaggcttgg 1920
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460

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gctagtaagg atgccaccta tacttctgcc cggaccctgc tggctatcct gcgcctttcc 1980
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actcagagac cagcagatgt gatatttgcc accgtccgtg aactggtctc agggggccga 2160
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<210> 541
<211> 1743
<212> DNA
<213> Homo sapiens

<400> 541
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ccagctcacc gagagcctag ttccggccag ggtcgccccg gcaaccacga gcccagccaa 180
tcagcgcccc ggactgcacc agagccatgg tcggcagaag agcactgatc gtactggctc 240
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agaaaggatg ggaggtggtg gagtcggacc tctatgccat gaacttcaat cccatcattt 360
ccagaaagga catcacaggt aaactgaagg accctgcgaa cttttcagtat cctgccgagt 420
ctgttctggc ttataaagaa ggccatctga gcccagatat tgtggctgaa caaaagaagc 480
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tgatatttct tgctttcaat tacaaagcag ttactaatat gcctagcaca agtaccactc 1560
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atctcttctt tgctgcagtc atctactttt tttttaatta aaaaaaattt ttttttgaac 1680
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ccc                                                                 1743
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<210> 542
<211> 2210
<212> DNA

461

<213> Homo sapiens

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<400> 542
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ggactgagat cccagaacca tgaacctggc catcagcatc gctctcctgc taacagtctt 180
gcaggtctcc cgagggcaga aggtgaccag cctaacggcc tgcctagtgg accagagcct 240
tcgtctggac tgccgccatg agaataccag cagttcaccc atccagtacg agttcagcct 300
gacccgtgag acaaagaagc acgtgctctt tggcactgtg ggggtgcctg agcacacata 360
ccgctcccga accaacttca ccagcaaata caacatgaag gtcctctact tatccgcctt 420
cactagcaag gacgagggca cctacacgtg tgcactccac cactctggcc attccccacc 480
catctcctcc cagaacgtca cagtgctcag agacaaactg gtcaagtgtg agggcatcag 540
cctgctggct cagaacacct cgtggctgct gctgctcctg ctctccctct ccctcctcca 600
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gttccagtgc agagatccta cttctctgag tcagctgacc ccctccccsc aatccctcaa 720
accttgagga gaagtgggga ccccacccct catcaggagt tccagtgctg catgcgatta 780
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aacctgggag agacttggat gaggagtggt tgggctgtgc ctgggcctag cacggacatg 1080
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gggaggcact tcctcccctc gcccatcagt gccagcccct gctggctggt gcctgagccc 1620
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cagcccccac ccggtggttc ttcctgttct gtgactgtgt atagtgccac cacagcttat 1800
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cgtgtccacc tggccttcgc tcctccagca gtgcctgcct gccmcgcttc gctggggtct 1920
ccacgggtga ggctggggaa cgccacctct tcctcttccc tgacttctcc ccaaccactt 1980
agtagcaacg ctaccccagg ggctaatgac tgcacactgg gcttctttttc agaatgaccc 2040
taacgagaca catttgccca aataaacgaa catcccatgt ctgctgactc acctggctgg 2100
aacaacatgc ttactgccaa catgtgggcc gaaccacatg gccctggctt tggaatgcac 2160
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<210> 543
<211> 1715
<212> DNA
<213> Homo sapiens

<400> 543
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gcggctgctc ccccaggcat ggcacagggc ctcgcctcac tatggcagca gcacggcaca 120
gcacgctcga cttcatgctc ggcgccaaag ctgatggtga gaccattcta aaaggcctcc 180
agtccatttt ccaggagcag gggatggcgg agtcggtgca cacctggcag gaccatggct 240
atttagcaac ctacacaaac aagaacggca gctttgccaa tttgagaatt tacccacatg 300
gattggtgtt gctggacctt cagagttatg atggtgatgc gcaaggcaaa gaagagatcg 360
acagtatttt gaacaaagta gaggaaagaa tgaaagaatt gagtcaggac agtactgggc 420
gggtgaaacg attaccaccc atagtgcgag gaggagccat cgacagatac tggcccaccg 480
ccgacgggcg cctggttgaa tatgacatag atgaagtggt atatgacgaa gattcacctt 540
atcaaaatat aaaaattcta cactcgaagc agtttggaaa tattctcatc cttagtgggg 600
atgttaattt ggcagagagt gatttggcat atacccgggc catcatgggc agtggcaaag 660
aagattacac tggcaaagat gtactcattc tgggaggtgg agacggaggc atattgtgtg 720
aaatagtcaa actaaaacca aagatggtca ctatggtaga gattgaccaa atggtgattg 780
atgggtgtaa gaaatacatg cgaaaaacgt gtggcgatgt cttagacaat cttaaaggag 840
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aatttggtgc ttataagaga gagttaaaaa aaaataggat tgcttcaatt aaaattacaa 1680
aagagamaaa aaaaaaaaaa aaagaaagtc gacgc   1715

<210> 544
<211> 3109
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1011)
<223> n equals a,t,g, or c

<400> 544
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gaccaagata tggttttgga gaggcaggga agcctaaatt tggcattgaa cctaatgctg 180
agcttatata tgaagttaca cttaagagct tcgaaaaggc caaagaatcc tgggagatgg 240
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ttctgaacct ggccatgtgc tacctgaagc ttagagaata caccaaagct gttgaatgct 480
gtgacaaggc ccttggactg gacagtgcca atgagaaagg cttgtatagg aggggtgaag 540

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taaaccccca gaataaggct gcaagactgc agatctccat gtgccagaaa aaggccaagg 660
agcacaacga gcgggaccgc agatatacgc caacatgttc aagaagtttg cagagcagga 720
tgccaaggaa gaggccaata aagcaatggg caagaagact tcagaagggg tcactaatga 780
aaaaggaaca gacagtcaag caatggaaga agagaaacct gagggccacg tatgacgcca 840
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<210> 545
<211> 1176
<212> DNA
<213> Homo sapiens

<400> 545
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ccgcggcaac cccaccgccc cgaccccggc cgcccagtgg gcctggagca gctgcggcgg 180
ctcggggtgc tctactggaa gctggatgct gacaaatatg agaatgatcc agaattagaa 240
aagatccgaa gagagaggaa ctactcctgg atggacatca taaccatatg caaagataaa 300
ctaccaaatt atgaagaaaa gattaagatg ttctacgagg agcatttgca cttggacgat 360
gagatccgct acatcctgga tggcagtggg tacttcgayg tgagggacaa ggaggaccag 420
tggatccgga tcttcatgga gaagggagac atggtgacgc tccccgcggg gatctatcac 480
cgcttcacgg tggacgagaa gaactacacg aaggccatgc ggctgtttgt gggagaaccg 540
gtgtggacag cgtacaaccg gcccgctgac cattttgaag cccgcgggca gtacgtgaaa 600
tttctggcac agaccgccta gcagtgctgc ctgggaacta acacgtgcct cgtaaaggtc 660
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aagaaggtgc aatcctagat aacacagcta gccagataga agacactttt ttctccaaaa 1020
tgatgccttg gggtggggag tggtaggggg aagagctccc accctaaggg gcacacactg 1080
agttgcttat gccacttcct tgttcaaaat aaagtaactg ccttaatctt aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1176
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<210> 546
<211> 1735
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<400> 546
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gtccacccca gcaggctggg tacgcgaggg tgacactgtc cagctgctct gccggggga 180
cggcagcccc agcccggagt atacgctttt ccgccttcag gatgagcagg aggaagtgct 240
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caccttcgat tccaatggca cctacgtatg tgaggcctcc ctgcccacag tcccggtcct 600
cagccgcacc cagaacttca cgctgctggt ccaaggctcg ccagagctaa agacagcgga 660
aatagagccc aaggcagatg gcagctggag ggaaggagac gaagtcacac tcatctgctc 720
tgcccgcggc catccagacc ccaaactcag ctggagccaa ttggggggca gccccgcaga 780
gccaatcccc ggacggcagg gttgggtgag cagctctctg accctgaaag tgaccagcgc 840
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cttccacttc ggcaccgtga gcccccagac ctcccaggct ggagtggccg tcatggccgt 960
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gctgagccac tcgggtcgg agcaaccaga gcagaccggc cttctcatgg gaggtgcctc 1140
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agaggctgtc cctggacctg gagctgcagg catcagagaa ccagccctgc tcacgccatg 1260
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ccgccccacc ccatcatctg tggacactgg agtctggaat aaatgctgtt tgtcacatca 1680
amaaaaaaaa aaaaaaaatt cgrgggggc ccggtaccca atttgcagga tggga      1735
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<210> 547
<211> 1048
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1043)
<223> n equals a,t,g, or c

<400> 547
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ttacccggtc tgagtacgac aggggcgtga atactttttc tcccgaagga agattatttc 180
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cagagggtgt gtgcctagct gtggagaaga gaattacttc cccactgatg gagcccagca 300
gcattgagaa aattgtagag attgatgctc acataggttg tgccatgagt gggctaattg 360
ctgatgctaa gactttaatt gataaagcca gagtggagac acagaaccac tggttcacct 420
acaatgagac aatgacagtg gagagtgtga cccaagctgt gtccaatctg gctttgcagt 480
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gccagaattt ccacatgttc acaaaggaag aacttgaaga ggttatcaag gacatttaag 840
gaatcctgat cctcagaact tctctgggac aatttcagtt ctaataatgt ccttaaattt 900
tatttccagc tcctgttcct tggaaaatct ccattgtatg tgcatttttt aaatgatgtc 960
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<210> 548
<211> 736
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (719)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (724)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (727)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (734)
<223> n equals a,t,g, or c


<400> 548
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgnc 720
ctanttntaa atcncg                                                  736


<210> 549
<211> 2231
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (2224)
<223> n equals a,t,g, or c


<400> 549
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atatgcctac aaaaggtctg tcttgtaact gttgtataaa ataaacctaa tctatggttt 180
catttttaat ctaaaaaaag ttgtgcctta acaatagggc attgtatgtt aataagggaa 240
aacaaccttt ttagtagatg ggggaaaata ggaacttttt gccattaaaa cttaagttct 300
tttgatgttt ttaatattat agttggggga gattcattaa aattaaattg aaataaaatt 360
attttttgcat aacctagcat ttacaactaa agtatgtttt ttataagaac tggcatcttg 420
atgtatatag gtctgaaata atatttcatc ttttgatttt taattttaat aatattagac 480
caggatagat cacagtttta caaatcttag tttttaaataa attatttcag tgtgctgtta 540
gtcctctaca gtcattttgg tttaaaaagt gactatttat ttatggtagc atatcaataa 600
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467

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<210> 550
<211> 1816
<212> DNA
<213> Homo sapiens

<400> 550
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aagaacaatg gaagaccaag atttaaagcc taatagactg acgtgtactt taaagttgtt 480
ggaatacttt gtagaggaat attttgatca aaatcctatt agtcagattg gaataattgt 540
aactaagagt aaaagagctg aaaaattgac tgaactttca ggaaacccaa gaaaacatat 600
aacgtctttg aagaaagctg tggatatgac ctgccatgga gagccatctc tttataattc 660
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tgaaaattta tcaata                                                  1816
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<210> 551
<211> 2610
<212> DNA
<213> Homo sapiens

<400> 551
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gaccctggtc tatgagaact acaacaagtt catctcagcc acagacacca tccggaagat 480
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tccttccccg caggcaggtg tcaggaccgg cctaataaac atgtgtggcc tcctcaaaaa 2580
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                  2610
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<210> 552
<211> 4021
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4000)
<223> n equals a,t,g, or c

<400> 552
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<210> 553
<211> 1780
<212> DNA
<213> Homo sapiens

<400> 553
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gactattcat gtgaggtttg gtatcttgca tttatgtaca tggctgtaaa ttatgtgcat 1680
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<210> 554
<211> 3713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3006)
<223> n equals a,t,g, or c

<400> 554
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tgtaggcccg gaagattgtg tggtcccgtt cctgacccgg cctaaggtcc ctgtcttgca 180
gctggatagc ggcaactacc tcttctccac tagtgcaatc tgccgatatt ttttttttgtt 240
atctggctgg gagcaagatg acctcactaa ccagtggctg gaatgggaag cgacagagct 300
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472

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gcagccagct ttgtctgctg ccctgtacta tttagtggtc caaggcaaga aggggggaaga 360
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473

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ccattttcat ctgaagacag gacctcttgc aggtcctcat accaggcttc cagctcccag 3420
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gtctggaaaa gcacatctgc aggataatgg ggagtggctg gaacaagctc catgtagcaa 3540
acagtctatg ccacaagttg gcaagctggt ctgatgcctg ctttcaggtg tggtgatgta 3600
tgaagataca cttccttctt gaacactctc tcctcaggtt ccagctctga ttttggctct 3660
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<210> 555
<211> 1997
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1887)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1951)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1980)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1992)
<223> n equals a,t,g, or c

<400> 555
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ggtcgcccct cagtctccac tagagacagg actgaccagt tgctcttcct tccaagaacc 120
ttcgagatct gcggtctggg gtctggttga aagatggcgg ccctcactac cctgtttaag 180
tacatagatg aaaatcagga tcgctacatt aagaaactcg caaaatgggt ggctatccag 240
agtgtgtctg cgtggccgga gaagagaggc gaaatcagga ggatgatgga agttgctgct 300
gcagatgtta agcagttggg gggctctgtg gaactggtgg atatcggaaa acaaaagctc 360
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cagaagaaga ccgtgtgcat ttacgggcac ctggatgtgc agcctgcagc cctggaggac 480
ggctgggaca gcgagccctt caccctggtg gagcgagacg gcaagctgya tgggagaggt 540
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taygtctgca tttctgacaa ttactggctg ggaaagaaga agccctgcat cacctacggc 780
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ttggtggaca gagggggaa catcctgatc cccggcatta acgaggccgt ggccgccgtc 960
acggaagagg agcacaagct gtacgacgac atcgactttg acatagagga gtttgccaag 1020
gatgtggggg cgcagatcct cctgcacagc cacaagaaag acatcctcat gcaccgatgg 1080
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474

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cggtacccgt ctctgtccct ccatggcatc gaaggcgcct tctctgggtc tggggccaag 1140
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aaggtctgcg ggaaagttct ggttgtncgg ctgggcacc acgggttcac amctatwaat 1920
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aggacaaagg cntaggg                                                 1997
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<210> 556
<211> 906
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (879)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (906)
<223> n equals a,t,g, or c

<400> 556
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caacatggag agaatcatga aagcacaagc gtaccaaacg ggcaaggaca tctctacaaa 180
ttactatgcg agtcagaaga aaacatttga aattaatccc agacacccgc tgatcagaga 240
catgcttcga cgaattaagg aagatgaaga tgataaaaca gttttggatc ttgctgtggt 300
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agatagaata gaaagaatgc ttcgcctcag tttgaacatt gaccctgatg caaaggtgga 420
agaagagccc gaagaagaac ctgaagagac agcagaagac acaacagaag acacagagca 480
agacgaagat gaagaaatgg atgtgggaac agatgaagaa gaagaaacag caaaggaatc 540
tacagctgaa aaagatgaat tgtaaattat actctcacca tttggatcct gtgtggagag 600
ggaatgtgaa atttacatca tttctttttg ggagagactt gttttggatg cccctaatc 660
cccttctccc ctgcactgta aaatgtggga ttatgggtca caggaaaaag tgggtttttt 720
agttgaattt ttttaacat tcctcatgaa tgtaaatttg tactatttaa ctgactattc 780
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ttgatgtaaa atcttgtcat gtgtataaaa ataaaaaaga tcccaaataa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaanc ccccgggggg ggcccccccc 900
cccctn   906

<210> 557
<211> 3484
<212> DNA
<213> Homo sapiens

<400> 557
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tacataaata tttgtttttag gacccttaga ttttatctga atacacagat taggctttaa 180
aaacagatat atatgtcatt tttggcttaa ggagtttggc taagttagct tttcaactgg 240
cactgtatgg cagcattttt tggtatggtt agcatggcac atggcgaaac ataaagcatt 300
ttactgtaca ggtaaggaat gtgccatgtt gttttaccta tctctctttc tctctcactc 360
ccatgcacac atcctgtgtg tattcagaga ccttcagaaa cattcatatt cattttcatg 420
agtcagcaaa agccctacgc ttgattccaa cagaatattt cctttacata ctttcttctc 480
ttaattttta caaaatttgt atggtaggtg taaaagaaaa tcatagtaac tgtaccatat 540
tattaacccc taaatcaaac tttttttgkc ttgtgkatct tgattttтct gtgtgcttta 600
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cccctggaga accgactgtg cttgcttacg tttggttcat gacttaaaaa tcgagtacag 720
gagttattcc tgatgaagct aaagctttgt ctctgttggc accagctaat gcagtggcag 780
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gttacatctg gaaatgagca tttgaaatag ataatccttt aagccttgtg gcaaaatttt 2400
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aagt                                                            3484
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<210> 558
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (788)
<223> n equals a,t,g, or c

<400> 558
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ngcacaggna aaggaggtga aatcgtctcg actcctgggg tccgtgtgct ctggtagaag 60
tgggcgacag tggctcaatt tctgatcagc agcttgcagc ctagatgatg gcagccaaag 120
gaaagacttg gccagcgagg ctccctacca ctccgaaaaa agagagtggg ggtcagcagg 180
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cactgccaca gggttcttgg agtaactgca ggtttaaact gcaggtctaa cttccagagg 300
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gaatgaatgc acttccagac tggcccagag tctcagcccc tcctcttcct tgtttcccgc 420
tggtccctct gggctgtacg gcccggatgg aggcctgagg aaaatgaggg ggctttggtt 480
ctccggaatt ccggccgggg ccacaccctc ctgtcttcag atggttcatg tacccatccc 540
cccttcccgt cctctccttt gtctcctctg tcaccgggac tcccagcaga gatttttttt 600
tgtactggct gtgtaacagg acaccgcatg cagccctcag gagggctct gtgcttctra 660
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477

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tgaaaaaggm aggcattgac ctccctctga ggcagtttcc aggcccaccg tggtgcacgc 720
aaaccacttc ctggccatgc gctccctcct gcttctcagc gccttctgcc tcctggaggc 780
ggccctcncg                                                         790
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<210> 559
<211> 558
<212> DNA
<213> Homo sapiens

<400> 559
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atgaaaaagc agagcgactc ggttaaggga aagcgccgag atgacgggct ttctgctgcc 180
gcccgcaagc agagggactc ggagatcatg cagcagaagc agaaaaaggc aaacgagaag 240
aaggaggaac ccaagtagct ttgtggcttc gtgtccaacc ctcttgccct tcgcctgtgt 300
gcctggagcc agtcccacca cgctcgcgtt tcctcctgta gtgctcacag gtcccagcac 360
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ggtagcctct ctcccctgg gccactcccg ggggtgaggg ggttacccct tccagtgtt 480
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aaaaaaaagg gsggcccc                                                558
```

<210> 560
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<400> 560
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gcgaccgccg cgccgnncac ccatggacgg cccggccatc atcacccagg tgaccaaccc 60
caaggaggac gagggccggt tgccgggcgc gggcgagaaa gcctcccagt gcaacgtcag 120
cttaaagaag cagaggagcc gcagcatcct tagctccttc ttctgctgct ccgtgatta 180
caatgtggag gcccctccac ccagcagccc cagtgtgctt ccgccactgg tggaggagaa 240
tggtgggctt cagaagccac cagctaagta ccttcttcca gaggtgacgg tgcttgacta 300
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tattagtaat gctgattta ttgttccggt tgaaatcgat ggaactatac atcaggtgta 420
tgtgctgaag cggccacatg tggacgagtt cctccagagg atggggcagc ttttgaatgt 480
gtgcwcttta ctgccgcwtg gccaagtatg cagacctgtg ctgacctcc taga         534
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<210> 561
<211> 3043
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (3038)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3039)
<223> n equals a,t,g, or c

<400> 561
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cacggaagag gccgttctat gaaaaactga cacagactgt attcctgcat tcaaatgtca 180
gccgtttgta aaatgctgta tcctaggaat aagctgccct ggtaaccagt ctctagctag 240
tgcctcttgc cctctcctca cctccttttc tctcagtgac tctggaacct gaatgcagct 300
tacaagacaa gcctgacttt tttctctgat taccttggcc tcctcttgga accagtgctg 360
aaaggttttg aatcctttac ccaacaatgc aaaaatagag ccaatggtta aacttggct 420
agaaatatca agagttgaat ccatagtgtg gggcccatga ctctagctgg gcaccttgga 480
cctccagctg gccaatagaa gagacaggag acaggaagcc ttcccatttt ttcaaagtct 540
gtttaattgc ctattacttc tctcaaagag aacctgaagt cagaacacat gagcagggtg 600
agaggtgagg caaggttcat cctgaatggg agaggaagtc gaaccactgc tgtgtgtctt 660
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tatattacct taagaaattt ccttccatag acagctgcct caaagggaaa tcctctttaa 2280
accgtagttg gcgcagaggt cagtcctagt cggagcttag gagggcggga gacgctcaca 2340
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agtctaagga gtagcaagtc agtgggagga cttttcacc cctggcatta gcagcttcga 2520
cctcattttc cagatgcacc agctcctatt aataagttag caaggaaagt gtatgtcacg 2580
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acaaagttgt ctgatttttg caagagaggt taggatttta ttgttcttat ttccctttac 2880
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<210> 562
<211> 1386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<400> 562
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caccatccgc cctcggcttc cgcggggcgc tgggccgcca gcctcggcac cgtcctttcc 120
tttctccctc gcgttaggca ggtgacagca gggacatgtc tcgggagatg caggatgtag 180
acctcgctga ggtgaagcct ttggtggaga aaggggagac catcaccggc ctcctgcaag 240
agtttgatgt ccaggagcag gacatcgaga ctttacatgg ctctgttcac gtcacgctgt 300
gtgggactcc caagggaaac cggcctgtca tcctcaccta ccatgacatc ggcatgaacc 360
acaaaacctg ctacaacccc ctcttcaact acgaggacat gcaggagatc acccagcact 420
ttgccgtctg ccacgtggac gcccctggcc agcaggacgg cgcacytcct tccccgcagn 480
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gggctgaaaa gcattattgg catgggaaca ggagcaggcg cctacatcct aactcgattt 600
gctctaaaca accctgagat ggtggagggc cttgtcctta tcaacgtgaa cccttgtgcg 660
gaaggctgga tggactgggc cgcctccaag atctcaggat ggacccaagc tctgccggac 720
atggtggtgt cccacctttt tgggaaggaa gaaatgcaga gtaacgtgga agtggtccac 780
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gcctacaaca gccggcgcga cctggagatt gagcgaccaa tgccgggaac ccacacagtc 900
accctgcagt gccctgctct gttggtggtt ggggacagct cgcctgcagt ggatgccgtg 960
gtggagtgca actcaaaatt ggacccaaca aagaccactc tcctcaagat ggcggactgt 1020
ggcggcctcc cgcagatctc ccagccggcc aagctcgctg aggccttcaa gtacttcgtg 1080
cagggcatgg gatacatgcc tcggctagca tgacccgcct gatgcggtcc cgcacagcct 1140
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cccgaagccg ctcccacacc agcgagggca cccgcagccg ctcgcacacc agcgaggggg 1260
sccacctgga matcacccc mactcgggtg ctgctgggaa cagcgccggg cccaagtcca 1320
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ggcccc                                                          1386
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<210> 563
<211> 2638
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480

<212> DNA
<213> Homo sapiens

<400> 563
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aaaaaatatc aggatggtgg aaaaactaga tctgtgtatc tctgttttgg catgcattta 120
ttcagtatct tctagcaatg gttttctct gttgatctac cgtagtatcc tatttttaag 180
tttatttat ttttaaggag tattgtcatc actttcaag gtgtcttgac ttctacacaa 240
agtatatata ttcaggactt taaaaaatag cagtacacat ttaacagtag cgaattacac 300
caaaatgatt tactttgaga tttgaataat ttgcatagca gtaaaatgtg ttttgtgtaa 360
catacaaata gaaaaatgac ccagtatctt aattgatact tactggagag tatcagaatt 420
acccagcagc tcttacagaa tgccataaat tctttaagac taaatattga aatcaattat 480
ttgaagtaat gttwctgatt tactgttaaa agttgctgag ctcagttttt ggagatatca 540
tttatgcctg cctgttccct tatgacagtg aggccttctt tggctccacc tagtatgata 600
atcatgggtt ctgttttagt tgatgagaag tggctcctat gaatgcctct gctcaatttc 660
tttttatttt acttattttt attttttaggg gtctcgccaa ctcctgggct caagtgattc 720
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tgtgtttttc cccacctatc ccttagaaaa cctaatgtgt actgctattt ttaaaaccaa 960
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atctacaaga ctattagcag tcttttttca gagcaaattt taacagctag ttgtgagtgg 1200
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tacacttttg cctttatcac ataatattca ttgtagagca ttgtgcaggt ccaagaatag 1500
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gcctatggca tgcttaaatc agcattgtca actgatttgt tgttgtatta ttttcacttc 1680
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tgtatatttg ctgactatta cttgatatct ctaatctctt ttcctaacaa atatagcatt 2580
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<210> 564
<211> 691

481

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (650)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<400> 564
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gcccccgggc ctccttccgc acgcaccccg agctgcctcc gcacagttgg aggagcgtag 120
gagggacccc cacccaggga tgacactcca ggaaggggac tgcagaggaa gccagactgt 180
gtccctgaca atgggaacag ccgacagtga tgagatggcc ccggaggccc cacagcacac 240
ccacatcgat gtgcacatcc accaggagty tgccctggcc aagctcctgc tcacctgctg 300
ctctgcgctg cggccccggg ccacccaggc magggrcagc agccggctgc tggwggcctc 360
rtgggtgatg cagatcgtgc tggggatctt gagtgcagtc ctaggaggat ttttctacat 420
ccgcgactac accctcctcg tcacctcggg agctgcatct ggacaggggc tgtggctgtg 480
ctgctggagc tgctgccttc atttaygaga aacggggtgg tacatactgg gccctgctga 540
ggactctgct aacgctggca agctttctnc acagncatcg ntggcctcaa actttgggaa 600
tgaagaattc cgatatggnt tactcttaat tacaacaagt ggctggccgn atnttcaggt 660
tcgagtggat tggaacactt caagccccca a   691

<210> 565
<211> 1967
<212> DNA
<213> Homo sapiens

<400> 565
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gtagggatcc attggagcat taaggagcac atatttttat taacttcttt tgagctttca 60
atgttgatgt aatttttgtt ctctgtgtaa tttaggtaaa ctgcagtgtt taacataata 120
atgttttaaa gacttagttg tcagtattaa ataatcctgg cattataggg aaaaaacctc 180
ctagaagtta gattatttgc tactgtgaga atattgtcac cactggaagt tactttagtt 240
catttaattt taattttata ttttgtgaat attttaagaa ctgtagagct gctttcaata 300
tctagaaatt tttaattgag tgtaaacaca cctaacttta agaaaaagaa ccgcttgtat 360
gattttcaaa agaacattta gaattctata gagtcaaaac tatagcgtaa tgctgtgttt 420
attaagccag ggattgtggg acttcccca ggcaactaaa cctgcaggat gaaaatgcta 480
tattttcttt catgcactgt cgatattact cagatttggg gaaatgacat ttttatacta 540
aaacaaacac caaatatttt tagaataaat tcttagaaag ttttgagagg aattttttaga 600
gaggacattt cctccttcct gatttggata ttccctcaaa tccctcctct tactccatgc 660
tgaaggagaa gtactctcag atgcattatg ttaatggaga gaaaaagcac agtattgtag 720
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cactcaaaac tcaggtcaa gttttaacaa aagaggtatg tagtcacagt aaatactaag 840
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ttgtattttc acaaaaaaaa agttaaactc ttctttttctt tttattataa tgaccagctt 1860
ttggtatttc attgttacca agttctattt ttagaataaa attgttctcc ttctaaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggggag              1967
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<210> 566
<211> 1334
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1307)
<223> n equals a,t,g, or c

483

<220>
<221> misc feature
<222> (1309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1312)
<223> n equals a,t,g, or c

<400> 566
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ggaacccggc gatatggctg ccgctgtgcc ccgcgccgca tttctctccc cgctgcttcc 180
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tggtgacaag ctgaacatgg agctgagtga gaaatacaag ctggacaaag agagctaccc 480
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gaagtgggcc gagcaatacc tgaagatcat ggggaagatc ttagaccaag gggaggactt 780
cccagcatca gagatgacac ggatcgccag gctgattgag aagaacaaga tgagtgacgg 840
gaagaaggag gagctccaga agagcttaaa catcctgact gccttccaga gaaggggc 900
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aggggagagt taacctgctg gctgtgagtc ccttgtggaa tataaggggg tagtgggaaa 1020
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catgcttggg atgtctctag ctggtctggg gatagctgga gcacttactc aggtggctgg 1140
tgaaatgaca ccctcagaagg aatgagtgct atagagagga gagaggagtg tactgcccag 1200
gtctttgaca gatgtaattc tcattcaatt aaagtttcag tgttttggtt aantaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgntnt anaggatccc 1320
tcgaggggcc caag   1334

<210> 567
<211> 1610
<212> DNA
<213> Homo sapiens

<400> 567
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rggcggaacg gcgtttgcaa tggctgctac tgtgaacttg gaacttgatc ccattttttt 120
gaaagcacta ggtttcttgc attcaaagag taaagattct gctgaaaagc taaaagcact 180
gcttgatgaa tctttggctc ggggcattga ttccagttac cgtccatctc aaaaggatgt 240
ggagccaccc aaaatttcaa gcacaaaaaa catttccatt aagcaagagc ccaaaatatc 300
atccagtctt ccttctggta ataataatgg caaggtcctc acaactgaaa aggtaaagaa 360
ggaagctgaa aagagacctg ctgataaaat gaaatcagac atcactgaag gagttgatat 420
tccaaagaaa cctagattgg agaaccaga aacacagtca tctcccatta ctgtccaaag 480
tagcaaggat ttacctatgg ctgaccttc cagttttgag gagaccagtg ctgatgattt 540
tgccatggag atgggattgg cctgcgttgt ttgtaggcaa atgatggtgg catctggcaa 600

484

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tcaattagta gaatgtcagg agtgccataa tctctaccac cgagattgtc ataaacccca 660
ggtgacagac aaggaagcga atgaccctcg cctggtgtgg tattgtgccc gatgtaccag 720
acaaatgaaa agaatggctc aaaaaactca gaaaccaccg cagaaaccag cccctgcagt 780
tgtttctgta actccagctg tcaaagatcc attggttaag aaaccagaaa ctaaactgaa 840
acaagagaca actttctag cgtttaagag aacagaagtc aagacatcca cagttatttc 900
aggaaattct tctagtgcca gcgtttcctc gtcagtaact agtggcttaa ctggatgggc 960
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tacgcccact gtacctttaa aaccacctcc acctctaacc ttgggtaaaa ctggccttag 1200
tcgctcagtt agttgtgaca atgtcagcaa agtaggtctt cctagtccaa gtagtttagt 1260
tccaggaagc agcagccaac taagtgggaa tggaaatagt ggaacatcag gacctagtgg 1320
aagtactacc agcaaaacta cttcagaatc cagcagctct ccctcagcat cccttaaagg 1380
cccaacttca caagaatcac agctcaatgc tatgaagcga ttacagatgg tcaagaagaa 1440
agctgcccaa aagaaactca agaagtaatg tggccaagta ggtttttgta tcatattagc 1500
ctaaagatga aaggcttatt attatgatat aatctgtaat acactgtaat ttaataaaag 1560
tcttcataat caaaaaaaaa aaaaaaaaa agaaaaaaa aaaaaaaaa            1610
```

```
<210> 568
<211> 1412
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1018)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1037)
<223> n equals a,t,g, or c

<400> 568
aattcggcac gagagaaaac attgcaaaag ctaaacgact aaaaaaggat tgaaggactg 60
aacaggcttt gcaaccagag gaaaatcatt tggaaaatta cacagctttg gaagaatcca 120
ctaaagtttc ttctttggat ttcttgacag tatgatttag taaatgaaat ttgaccaaat 180
ggaagaatca tgttagttct gacctcaata ctatagtaac ttttaggcgt gggtgtagaa 240
gtttataggt ttctattgac agttattgta aattagcatt tactgtggta caaattcttt 300
ataactgact tagtcatttg ccgcttagca gtttatatac tgaaatgaaa acatcttgtg 360
gggaaaagtg actttagatt atgaactcaa ttcaaatgaa ctctatttaa aatggggtcc 420
tattttggac aaaggaaatt aagaatgtaa aagtcagaac agtcttgagg taaaaagtgt 480
gctttggctt aaaaggata cagtatatta attacatctt ttattattat tgtttatttc 540
ttagaatcat ttctggcttt ctcaaaacaa aataatatta atgagtactt ctatttgctg 600
catttttctt attacagcct ttgagacagc tggtaattat aagtcatttt ccattttta 660
aaacataatt ttataaagaa ttctcttatc tcgactatgt agaataccac ctactggaca 720
gaacaatttt tgtactcaca aacactgcca ttttcttaga gatggcttga gaggagtaac 780
actatggttt aaagcttgca gtaaaaatgc caaacactgt agtaccttgg aacccagtt 840
attcttgtgc taagcagaac tgtaaaatag ttaaaatgtc ttatcaagta attcgccgat 900
tacaaagaca ccatttgttt tttatttcat tctttgkttt aactcatgtg gtagtgatat 960
ttaatacttt ctgatcaaac aggttcaaag taaaacgtta aatttcacat ttcttttnaa 1020
```

```
agaactctta aagtgtnaca gttacgccat acttcataag tggtaaagaa aggtataaaa 1080
tttggaaaca ttttgttggg catagtagtg attgggtgaa aaggataaat tatatcaaaa 1140
tgagaatgtg ctgtaattgg aagtagggag ctaaaggatg tttctttcag tttagtagaa 1200
ctggaacgtt ttactattaa acatggcttt tataaatgca tggtccaata atttattca 1260
ctgttagtat ttaattcact gtcagcttat taatgttttc tgtacccatt aatgaatttt 1320
aaattacaaa aaattgtcta gcagctacag tttaaaaatg aaactagaca ttaaaataaa 1380
tttgataatt ttttataaaa aaaaaaaaa ag                                1412
```

<210> 569
<211> 1125
<212> DNA
<213> Homo sapiens

<400> 569
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gacaacgggg gcgaagcgca ggcgcaagga gcaagcgcag attgtgggcg gctgtgtcag 60
ctgacccaag gggccttcga ggtgccttag gccgcttgcc ttgctctcag aatcgctgcc 120
gccatggcta gtcagtctca ggggattcag cagctgctgc aggccgagaa gcgggcagcc 180
gagaaggtgt ccgaggcccg caaaagaaag aaccggaggc tgaagcaggc caaagaagaa 240
gctcaggctg aaattgaaca gtaccgcctg cagagggaga aagaattcaa ggccaaggaa 300
gctgcggcat tgggatcccg tggcagttgc agcactgaag tggagaagga gacccaggag 360
aagatgacca tcctccagac atacttccgg cagaacaggg atgaagtctt ggacaacctc 420
ttggctttg tctgtgacat tcggccagaa atccatgaaa actaccgcat aaatggatag 480
aagagagaag cacctgtgct gtggagtggc attttagatg ccctcacgaa tatgaagctt 540
agcacagctc tagttacatt cttatgatat ggcattaaat tatttccata tattatataa 600
taggtccttc cacttttggg agagtagcaa atctagcttt tttgtacaga cttagaaatt 660
atctaaagat ttcatctttt tacctcatat ttcttaggaa tttaatggtt atatgttgtc 720
ttttttcct atgtcttttg gctcaagcaa catgtatatc agtgttgact ttttctttct 780
tagatctagt ttaaaaaaaa aaaaaccac ataacaattc tttgaagaaa ggaagggatt 840
aaataatttt tttccctaac actttcttga aggtcagggg ctttatctat gaaaaagtag 900
taaatagttc tttgtaacct gtgtgaagca gcagccagcc ttaaagtagt ccattcttgc 960
taatggttag aacagtgaat actagtggaa ttgtttgggc tgcttttagt ttctcttaat 1020
caaaattact agatgataga attcaagaac ttgttacatg tattacttgg tgtatcgata 1080
atcatttaaa agtaaagact ctgtcatgca tttttccccca aaaa                 1125
```

<210> 570
<211> 1916
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1899)
<223> n equals a,t,g, or c

<400> 570
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ggggagggtc agttggaggc aggcgctcgc tgaggcaaaa ggaggcgctc ggcccgcggc 60
ctgacaggga cttagcccgc agagatcgac cccgcgcgcg tgaccccaca cccacccact 120
catccatcta tccactccct gcgccgcctc ctcccaccct gagcagagcc gccgaggatg 180
ataaacaccc aggacagtag tattttgcct ttgagtaact gtccccagct ccagtgctgc 240
aggcacattg ttccagggcc tctgtggtgc tcctgatgcc cctcacccac tgtcgaagat 300
ccccggtggg cgagggggcg gcagggatcc ttctctctca gctctaatat ataaggacga 360
```

486

```
gaagctcact gtgacccagg acctccctgt gaatgatgga aaacctcaca tcgtccactt 420
ccagtatgag gtcaccgagg tgaaggtctc ttcttgggat gcagtcctgt ccagccagag 480
cctgtttgta gaaatcccag atggattatt agctgatggg agcaaagaag gattgttagc 540
actgctagag tttgctgaag agaagatgaa agtgaactat gtcttcatct gcttcaggaa 600
gggccgagaa gacagagctc cactcctgaa gaccttcagc ttcttgggct ttgagattgt 660
acgtccaggc catccctgtg tcccctctcg gccagatgtg atgttcatgg tttatcccct 720
ggaccagaac ttgtccgatg aggactaata gtcatagagg atgctttacc caagagccac 780
agtgggggaa gaggggaagt taggcagccc tgggacagac gagagggctc ctcgctgtct 840
agggaaggac actgaggggc tcagggtgag ggttgcctat tgtgttctcg gagttgactc 900
gttgaaattg ttttccataa agaacagtat aaacatatta ttcacatgta atcaccaata 960
gtaaatgaag atgtttatga actggcatta gaagctttct aaactgcgct gtgtgatgtg 1020
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catggcctgg agggctggtg ggcagcactg tcaggctcag gtttccctgc tgttggcttt 1140
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cctgagtata ggcttttcag tccctgggca gtgtccttga gttgtttttt gacactctta 1260
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ctttacagct tagtgttatt ctggcatttg gttaagctgg cttaatctgt ttaatgttat 1380
cagtacattt aaataggggg cattgaaatt tactcccacc accagggctt ttttggggga 1440
tgcctgggcc tttaaaacac tagccaaact ctaattaatt ctcaaatcac tgccaggagt 1500
tcttgctcct ggctgcaggc ccaggcccca aggtctcctt cttggggtca caaacagcag 1560
taaggaagag gaatatatag caactcaggg cctgggaatt gtggggcaat ccgttcttag 1620
ggactggata cttctggctg gctgagtata gtactagctg cctcccacc aggttccgag 1680
tagtgtctga gactctgctc tgcagggcct agggtagcgc tgggagtgta gaagtggcct 1740
gcccttaact gttttcacta aacagctttt tctaaggggga gagcaagggg gagagatcta 1800
gattgggtga gggggacggg gatgtcaggg aggcaagtgt gttgtgttac tgtgtcaata 1860
aactgattta aagttraaaa aaaaaaaaaa aaaaactcng rgggggcgct atagtg 1916
```

<210> 571
<211> 1253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1212)
<223> n equals a,t,g, or c

<400> 571
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cgcgtccgcc cacgcgtccg cccacgcgtc cgcccacgcg tccgctcagg aggcgggagg 60
aggacccgga atgaagacga aggcgctcac cattaaatcg tacggctcgc actgcccct 120
gcccgcagtc cagcgtcttc aaccgtttct gcggcagctc tggaggccgc ggctttggct 180
```

```
cagggaaagc catgctccca ggactccttc cttgcagcct taaatcggtc tgtacggaaa 240
attccgcgcc ttagaaaccc acgcttgggt gtaaccttat tattgttctt cctgacctac 300
ttcctgttta tcacttccgg gttcatcatt ttggcatttc ggtgatcggg ttggaactat 360
tgaagcccgc tttcaggttc ttttccccat tttccctttg aaaggaagac ttctggcttc 420
tcctaaatct ccgttctctg ggtaagggga gtccaagcct ctgtcatgag gaacggaaat 480
gcgagggcct cgggtgttac tctaaaatcc gccctcagct tgcacgccgg aagctgcgat 540
tcctgcagcg gaagaggcgt gatctggcct tcgactcgct atgtccacta acaatatgtc 600
ggacccacgg aggccgaaca aagtgctgag gtacaagccc ccgccgagcg aatgtaaccc 660
ggccttggac gacccgacgc cggactacat gaacctgctg ggcatgatct tcagcatgtg 720
cggcctcatg cttaagctga agtggtgtgc ttgggtcgct gtctactgct ccttcatcag 780
ctttgccaac tctcggagct cggaggacac gaagcaaatg atgagtagct tcatgctgtc 840
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ataccagcct agaagggtca cattttggac cctgtctatc cactaggcct gggctttggc 960
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ctgcctccct tcccctgcct gctgctgggg gagatgctgt ccatgtttct aggggtattc 1140
atttgctttc tcgttgaaac ctgttgttaa taaagttttt cactctgaaa aaaaaaaaa 1200
aaaanrnaaa anctygrggg ggggcccgga acccaattcs ccggatagtg agt         1253
```

```
<210> 572
<211> 2013
<212> DNA
<213> Homo sapiens
```

```
<400> 572
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ccagtgatcc ccaagcatcc agtacagaac caggcatcga gctagctccc tgcacggccg 120
caccctccca gagaactcct tgaggagaac aagtgccctt ggggacagcc ggcakgcgcc 180
cctgtacgtc tgctcatgca ccaggcagca cagccgcagt tcctcagttg ttgtttttgac 240
atatttcagt ttccacctca ygtttttaga gcagaaccac actgtctccc tggaggggct 300
cgagggcatg accgggggact gaccattctg tgaaagkagc agaatgtgag gagcacgcgt 360
gagcttatgt accgtgaaga tgatcagagg atatcttatt ttaagagtaa aaacccacat 420
aattttattt ctgcttgata gtcatggtag tctgtcatac ccacctctgg gactctgcgt 480
ggctgtttgg ctgtcacttg tagcaataac gacattagtt ctagtcagtg ctgtttttaca 540
tttttctttt gatgggttta gtcttgccct ggagtgccga tgatgattct ccctccagag 600
ccacgcttgg gaacatgaag caagtctggc gtgtgggctg cgtgccggcc ttagtgggac 660
ccgtggggtt ggagcatgcc tttaggggca gtgtctgggc cgaagcacgt cccaccacac 720
agtgccagag ccagagaagg ggccccacca ccaaggccaa gcttgaccag gtcagcattg 780
ccatggccca gtgtgccccg tggcctctga agatccctct gtgcagggtc tgcagggatc 840
tggattgcaa gggcccaagt ctgcaggtct ggaagcatct tcctataaga gcactttcgc 900
cttctgggtc aggactccaa ggtgcagcgg gcttcacagc cctacaattg ggttctcagc 960
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acgggaacac atggggcagg tcctggaact tggtggcctg aggactgagg ccattgccct 1080
ggtggaaagg cctggcctgg ttcctgtggc ttgggacctg aataggcagg tgctgctggc 1140
tccgtagaaa ccctttttcc atcttttgct ctttgccaaa cctaccttgc tttgggagct 1200
gcctgcacca ccccagagaa ggccccacct tcttcatccc tcagacccga ggaggcctcc 1260
cagtaaggag tttcccaaga ggggactcac aggaaacaag tcttagtgct tgggagggag 1320
gccccgctgc gtgctcagac tcacagccaa cctggaaggt agacgagata gcgccaccca 1380
cgcccctcca caccccagac tccgagtaaa gcgggcggta gggccggagt cacctcccct 1440
atggcagtgg ccgccgctgt actccatcct cccgtcagga agatcagctg taaataaacg 1500
ctgggctccc cagagcacct gtccgcccac tgcccttgct gttctgggat cttcgctgca 1560
```

```
gttcacggga aacaagcctg agtccgctcg cacccgcggc tgctctcccg gctcggcccg 1620
gccgcctctg tctccggcca ccgggtggcg ctgccgagcc agagccgccg cgtcccggcg 1680
ctttccagga gccccaggcc cggaggagcg aagcccgcag agcaaaggtg gaaacacgtg 1740
cctacgctgt aaagaaatcc tgttccagag catacctgtt gtacaaacag acactgttcc 1800
taacgagagg agtgacgtat tttcatcacc gtttttaatt tgttttctta cgggtttacg 1860
attttgaatt tttcttattt ggttgaaaga attttgattc tatcagcctg agtgagttca 1920
gcctgtaaaa aggatgttaa gctgtgggta aaatatgcaa acgaaaagaa atatattgta 1980
caaattctat ataataagaa aaaaaaaaa aaa                                 2013
```

<210> 573
<211> 669
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (631)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

<400> 573
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cgtttgcccg gcgctgccgc gtctctctcg gctcccgctt cctttgaccg cctccccccc 60
cggcccggcg gcgcccgcct cctccacggc cactccgcct cttccctccc ttcgtcccct 120
cttcctctcc ctttttttcct tcttccttcc cctcctcgcc gccaccgccc aggaccgccg 180
gccgggggac gagctcggag cagcagccag agtttattaa ccacttaacc tctcagaact 240
gaacaaagac aacattgttc ctggaacgcc ctcttttttaa aaaagaaagc ataaccccta 300
ctgtagaact aaatgcactg tgcatgaaac ttggaaaaaa accaatgtat aagcctgttg 360
acccttactc tcggatgcak tcmacctata actacaacat gagaggaggt gcttatcccc 420
cgaggtactt ttacccattt ccagntccac ctttacttta tcaagtggaa ctttctgtgg 480
gaggacagca atttaatggc aaaggaaaga caagacaggc tgcgaaacac gatgctgctg 540
ccaaagcggt tgaggatcct gcagaatgag cccctggcag aagagggctg aggtgaaagg 600
aagagaatcc gaagaagaaa actcaataaa nctgaaanaa agcaagggct tgagatgcct 660
taaacggga                                                           669
```

<210> 574
<211> 2432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)

489

<220>
<221> misc feature
<222> (2326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2367)
<223> n equals a,t,g, or c

<400> 574

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acacagnaga aacacagcat tccaggctgg ccccacctct atattgataa gtagccaatg 60
ggagcgggta gccctgatcc ctggccaatg gaaactragg taggcgggtc atcgcgctgg 120
ggtctgtagt ctgagcgcta cccggttgct gctgcccaag gaccgcggag tcggacgcag 180
gcagaccatg tggaccctgg tgagctgggt ggccttaaca gcagggctgg tggctggaac 240
gcggtgccca gatggtcagt tctgccctgt ggcctgctgc ctggaccccg gaggagccag 300
ctacagctgc tgccgtcccc ttctggacaa atggcccaca acactgagca ggcatctggg 360
tggcccctgc caggttgatg cccactgctc tgccggccac tcctgcatct ttaccgtctc 420
agggacttcc agttgctgcc ccttcccaga ggccgtggca tgcggggatg gccatcactg 480
ctgcccacgg ggcttccact gcagtgcaga cggggcgatcc tgcttccaaa gatcaggtaa 540
caactccgtg ggtgccatcc agtgccctga tagtcagttc gaatgcccgg acttctccac 600
gtgctgtgtt atggtcgatg gctcctgggg gtgctgcccc atgccccagg cttcctgctg 660
tgaagacagg gtgcactgct gtccgcacgg tgccttctgc gacctggttc acaccgctg 720
catcacaccc acgggcaccc accccctggc aaagaagctc cctgcccaga ggactaacag 780
ggcagtggcc ttgtccagct cggtcatgtg tccggacgca cggtcccggt gccctgatgg 840
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ctgctgctcc gatcacctgc actgctgccc ccaagacact gtgtgtgacc tgatccagag 960
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tctacagtcg ggggcctggg gctgctgccc ttttacccag gctgtgtgct gtgaggacca 1140
catacactgc tgtcccgcgg ggtttacgtg tgacacgcag aagggtacct gtgaacaggg 1200
gccccaccag gtgccctgga tggagaaggc cccagctcac ctcagcctgc cagacccaca 1260
agccttgaag agagatgtcc cctgtgataa tgtcagcagc tgtccctcct ccgatacctg 1320
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ggaccaccag cactgctgcc cccagggcta cacgtgtgta gctgaggggc agtgtcagcg 1440
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ccccagagac atcggctgtg accagcacac cagctgcccg gtggggcaga cctgctgccc 1560
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agtggtctct gcccagcctg ccaccttcct ggcccgtagc cctcacgtgg gtgtgaagga 1740
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gaagactctg cagccctcgg gaccccactc ggagggtgcc ctctgctcag gcctccctag 2040
cacctccccc taaccaaatt ctccctggac cccattctga gctccccatc accatgggag 2100
gtggggcctc aatctaaggc cttcctgtc agaagggggt tgtggcaaaa gccacattac 2160
aagctgccat ccccctcccg tttcagtgga ccctgtggcc aggtgctttt ccctatccac 2220
aggggtgttt gtgtgtgtgc gcgtgtgcgt ttcaataaag tttgtacact ttcaaaaaaa 2280
```

```
aaaaaaaaaa aaagggsggc cgctctaaaa gatccaaggg gccaanctta cccttgcatg 2340
ccaactctaa ctctctccca ataattnatt cttatataac taaggcactg gccgtctttt 2400
aaaacttctg aatggaaatt gctacttggg at                              2432
```

<210> 575
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1370)
<223> n equals a,t,g, or c

<400> 575
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tccgcccacg cgtccgagcg gatcgcgkgc tcgggctgcg gggctccggc tgcgggcgct 60
gggccgcgag ngcggagctt gggagcggac ccaggccgtg ccgcgcggcg ccatgaaggg 120
caaggaggag aaggagggcg gcgcacggct gggcgctggc ggcggaagcc cgagaagagc 180
ccgagcgcgc aggagctcaa ggagcagggc aatcgtctgt tcgtgggccg aaagtacccg 240
gaggcggcgg cctgctacgg ccgcgcgatc acccggaacc cgctggtggc cgtgtattac 300
accaaccggg ccttgtgcta cctgaagatg cagcagcacg agcaggccct ggccgactgc 360
cggcgcgccc tggagctgga cgggcagtct gtgaaggcgc acttcttcct ggggcagtgc 420
cagctggaga tggagagcta tgatgaggcc atcgccaatc tgcagcgagc ttacagcctg 480
gccaaggagc agcggctgaa cttcggggac gacatcccca gcgctcttcg aatcgcgaag 540
aagaagcgct ggaacagcat tgaggagcgg cgcatccacc aggagagcga gctgcactcc 600
tacctctcca ggctcattgc cgcggagcgt gagagggagc tggaagagtg ccagcgaaac 660
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aagcgagaca tccccgacta cctgtgtggc aagatcagct ttgagctgat gcgggagccg 840
tgcatcacgc ccagtggcat cacctacgac cgcaaggaca tcgaggagca cctgcagcgt 900
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491

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<210> 576
<211> 2020
<212> DNA
<213> Homo sapiens

<400> 576
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<210> 577
<211> 3161
<212> DNA
<213> Homo sapiens

<400> 577
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<210> 578
<211> 2046
<212> DNA
<213> Homo sapiens

<400> 578
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caccaccacc atgttggctg caaggctggt gtgtctccgg acactacctt ctagggtttt 180
ccacccagct ttcaccaagg cctcccctgt tgtgaagaat tccatcacga agaatcaatg 240
gctgttaaca cctagcaggg aatatgccac caaaacaaga attgggatcc ggcgtgggag 300
aactggccaa gaactcaaag aggcagcatt ggaaccatcg atggaaaaaa tatttaaaat 360
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tggtgtgatg ggtgcagtgg tggctcctct gacaatatta gggggtcctc ttctcatcag 780
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ccttgatgga attatatatg tgtgttttac ttttgaatgt tacaaaagga aataacttta 1920
aaactattct caagagaaaa tattcaaagc atgaaatatg ttgctttttc cagaatacaa 1980
acagtatact catgagcaaa aaaaaaaaaa gggcggccgc tctagaggat ccctcgaggg 2040
gcccaa                                                           2046

<210> 579
<211> 302
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
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<222> (8)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c


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accctcatca cccaccacac ataatgggga gctggagccg tcattctccc ccttgctagg 180
agaagggaag acgcccgaga cgctgcttcc ccagaagtgc tggggncagg gaggcccagg 240
nagatgagag agaaggtccg agtaggtgga tagaagacaa ggggggagac cgagccggag 300
tg                                                                302


<210> 580
<211> 3067
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1808)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2945)
<223> n equals a,t,g, or c


<400> 580
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tgcgctcgct ctgcagagcc tcaggctcgc ggccggcctg ggcgccggcg gccctgacag 180
cccccacctc gcaagagcag ccgcggcgcc actatgccga caaaaggatc aaggtggcga 240
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agaagctcat cctgccccac gtggacatcc agctaaagta ttttgacctc gggctcccaa 360
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gtgtggctgt caagtgtgcc accatcaccc ctgatgaggc ccgtgtggaa gagttcaagc 480
tgaagaagat gtggaaaagt cccaatggaa ctatccggaa catcctgggg gggactgtct 540
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495

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tccgggagcc catcatctgc aaaaacatcc cacgcctagt ccctggctgg accaagccca 600
tcaccattgg caggcacgcc catggngacc agtacaaggc cacagacttt gtggcagacc 660
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<210> 581
<211> 1574
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

496

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<222> (457)
<223> n equals a,t,g, or c

<400> 581
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taaaatcgtg ggggagatgc ccggcctggg atgctgtttg gagacggaat aaatgttttc 1500
tcattcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaagggc ggcc                                                    1574

<210> 582
<211> 960
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (924)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (937)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (939)
<223> n equals a,t,g, or c
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497

<400> 582
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aacaacaagt acgcggccag cagctacctg agcctgacgc ctgagcagtg gaagtcccac 660
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<210> 583
<211> 541
<212> DNA
<213> Homo sapiens

<400> 583
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ccgccgccat gcagccctcc agccttctgc cgctcgccct ctgcctgctg gctgcacccg 180
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cggtgccagc cgtgaccgag gggcccattc ccgaggtgct caagaactac atggacgccc 360
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cgggctycty caacctgtgg gtcccctcca tccactgcaa actgctggac atcgcttgct 480
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<210> 584
<211> 2968
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2961)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2964)
<223> n equals a,t,g, or c

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ctaccccctg tctcccccac aaaggacacc ggctgggatt cggtatcgaa tcgcagttat 180
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aaagggctac ctgaccctgt cagacagtgg ggacaaggtg gccgtggaat gggacaaaga 300
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499

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aaaaacaaaa aaaaaaaaaa nagnagag                                    2968
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<210> 585
<211> 2608
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<400> 585
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cgcgcctgcg cccccgggac ccgtctcccc cgagggccgg ttggcggcag ctgggacgcg 240
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gatgtggtgc tctcaggggt gaagctcttg caggcacttg gccttagtcc tgggaatggg 360
aaagatcaca gcattctgca ttcaaggaat gatctggaag aagccttcat tcacttcatg 420
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caggttgcgt cagagttccc aggagcccag cactatgtag gaggaaatgc agctttaatt 540
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aagacagcca aagaaataaa agcagattaa aytgtatcag gtacattcca gcctgttggc 1680
aactccataa aaacatttca gattttaatc cgaatttagc taatgagact ggatttttgt 1740
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500

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cagttcttcc ttgcccactt gagaagtgca cgcccactca cccaacatcc tggtctctag 1920
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<210> 586
<211> 1893
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1865)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1883)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1887)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1893)
<223> n equals a,t,g, or c

<400> 586
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cggagcccgg ccgtagaggc tgcaatcgca gccgggagcc cgcagcccgc gccccgagcc 180
cgccgccgcc cttcgagggc gccccaggcc gcgccatggt gaaggtgacg ttcaactccg 240
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ttctaggagg agcatacttg tacaaatatt ttgcacttca accagatgac gtgtactact 480
gtggaataaa gtacatcaaa gatgatgtca tcttaaatga gccctctgca gatgccccag 540
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ttaacaagaa acttacagcc tatttagatc ttaacctgga taagtgctat gtgatccctc 720
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aagcagagaa agaaaagtta aataccagat aagctttga ttttgtatt gtttgcatcc 1800
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<210> 587
<211> 2463
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2413)
<223> n equals a,t,g, or c

<400> 587
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gcactgctca cagagcccac agctccatgg taggagtcaa tctgccacag aaggctggtg 540
ggttttttgat gaagaaggag ctgaactact ttgcaaaggc cttggagagc ccagagcgac 600
ccttcctggc catcctgggc ggagctaaag ttgcagacaa gatccagctc atcaataata 660
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<210> 588
<211> 1945
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1939)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1945)
<223> n equals a,t,g, or c
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503

<400> 588
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atagatgagc tctgagtttc tcagtactcc ctcaagactg gacatcttgg tctttttcty 1860
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tgaggtgggg ggaagggang aaggn 1945

<210> 589
<211> 816
<212> DNA
<213> Homo sapiens

<400> 589
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gcggcccggc cgcggggagc cccgctacat cgccgtggag tacgtagacg acacgcaatt 180
cctgcggttc gacagcgacg ccgcgattcc gaggatggag ccgcgggagc cgtgggtgga 240
gcaagagggg ccgcagtatt gggagtggac cacagggtac gccaaggcca acgcacagac 300
tgaccgagtg gccctgagga acctgctccg ccgctacaac cagagcgagg ctgggtctca 360
caccctccag ggaatgaatg gctgcgacat ggggcccgac ggacgcctcc tccgcgggta 420
tcaccagcac gcgtacgacg gcaaggatta catctccctg aacgaggacc tgcgctcctg 480
gaccgcggcg gacaccgtgg ctcagatcac ccagcgcttc tatgaggcag aggaatatgc 540

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catctctgac catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat 720
cacgctgacc tggcagcggg atggggagga acagacccag gacacagagc ttgtggagac 780
caggcctgca ggggatggaa ccttcagaag tgggct                          816
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<210> 590
<211> 2307
<212> DNA
<213> Homo sapiens

<400> 590
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gcgccgccac cccgaccccg ctgcgcacgg cctgtccgct gcacaccagc ttgttggcgt 180
cttcgtcgcc gcgctcgccc cgggctactc ctgcgcgcca caatgagctc ccgcatcgcc 240
agggcgctcg ccttagtcgt caccettctc cacttgacca ggctggcgct ctccacctgc 300
cccgctgcct gccactgccc cctggaggcg cccaagtgcg cgccgggagt cgggctggtc 360
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taccaaaacg gggaaagttt ccagcccaac tgtaaacatc agtgcacatg tattgatggc 600
gccgtgggct gcattcctct gtgtccccaa gaactatctc tccccaactt gggctgtccc 660
aaccctcggc tggtcaaagt taccgggcag tgctgcgagg agtgggtctg tgacgaggat 720
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gcctccgagg tggagttgac gagaaacaat gaattgattg cagttggaaa aggcagctca 840
ctgaagcggc tccctgtttt tggaatggag cctcgcatcc tatacaaccc tttacaaggc 900
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caaacagaaa tcaggtgttt taagactgaa tgttttattt atcaaaatgt agcttttggg 1920
gagggagggg aaatgtaata ctggaataat ttgtaaatga ttttaatttt atattcagtg 1980
aaaagatttt atttatggaa ttaaccattt aataaagaaa tatttaccta aaatctgagt 2040
gtatgccatt cggtattttt agaggtgctc caaagtcatt aggaacaacc tagctcacgt 2100
actcaattat tcaaacagga cttattggga tacagcagtg aattaagcta ttaaaataag 2160
ataatgattg cttttatacc ttcagtagag aaaagtcttt gcatataaag taatgtttaa 2220
aaaacatgta ttgaacacga cattgtatga agcacaataa agattctgaa gctaaaaaaa 2280
aaaaaaaaaa aaaaaaaaaa actcgta                                    2307
```

<210> 591
<211> 1438
<212> DNA
<213> Homo sapiens

<400> 591
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gcttgtggcc ccagccacag ccgccactgc ctaccggccg gactggaacc gtctgagcgg 180
cctaacccgc gcccgggtag agacctgcgg gggatgacag ctgaaccgcc taaaggaggt 240
gagtttgaag gaagaggtcc ctagctctgt tccccctgag cctcttgggg agtgggcaac 300
atggtcccaa tgactggggc ggggagggg gaaggatccc taggctgaga gtctagccta 360
ggctgggagt ctagcctgca cctgacttgc tttatgacct cactgggctt cagtgtctcg 420
tctgtacctc gagtagactg aggtcatggt ctctgatgct ctggttcctc cccaggtgaa 480
ggctttcgtc acgcaggaca ttccattcta gtatccttct gttctggggg aggggaaatg 540
ggatgggcac ctgggagaat ctccacgtaa cttcagaaag gggtggcaga tggttttcaa 600
ctgacaattg aattgatygg tagtggctcc cagaggattc tgaggtggtc tccatgttgg 660
gtgggcaaga gagattgact agtgatgact gccacagaat ggagaggagg gccctttact 720
tctttgaacc ctaattttct cacgtataag cggaracccct ggccctccc gggcacagag 780
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tccctctgcc caccacccccg ctccttaaca ccacctccag tcacaacctg gtgatgaaac 900
acctccctgg ggccgaccct gagctcgtgc tgctgggccg cgctacgagg aactagaggt 960
gaggccgtgg gaggtgggct gggggcgagg ccagakgcga ggyccagcct gctgacccccg 1020
cccctcctcc gcctcagcgc atcccactca gtgaaatgac ccgcgaagag atcaatgcgc 1080
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gcatcccggg aatacttctc ttgctgagag ccgatgcccg tccccgggcc agcagggatg 1320
gggttgggga ggttctccca accccacttt cttccttccc cagctccact aaattccctc 1380
ctgccttaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaagg gcggccgc   1438

<210> 592
<211> 1078
<212> DNA
<213> Homo sapiens

<400> 592
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tgkgcaggtg gaagtggatg tggacgagca gcgcctggcg gaaggtggtg gggtctgctc 120
cttccacctg caggcagccc tgggggaaat gctgccctcc ccaccccca gggctctgag 180
tgtggagggc agggcagga atggcgtccc tcaggagcca gcatggccct ggagccccg 240
agtccctgag gaaagtgttg atgccctcca gcatggggct ccttctcatc ctgtacgccc 300
ggctgccacc cagcctggtg ggccaggcag gcaggtggat agggtgggca ggccgggcag 360
ggggcaggc ggtcaggcag ccctctccca cagtcctcat cgacggcgtg gagtgcagcg 420
acgtcaagtt cttccagctg gccgcgcagt ggtcctcgca cgtgaagcac ttccccatct 480
gcatcttcgg acactccaag gccaccttct agccccaccc accaggggc ccacctcctg 540
ccccatgctg tgagggccc agctgcattt ctgttaacat ttcagtttac tacagagaca 600
gacgcttaaa acacaaagag aaacagtctt aagtatgaat gtgctcacaa cgtggaaact 660
aacggggggag ctcctgccag gagccgaata actgctctgc ttattaaccc gaacgttcgg 720
cccgggggctg ggaagccaga aggacgatgc tgagccatgg atcgcggaag gcgtcctctg 780

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gcctcaggag ccacccagag cctcacaggc tgagttcttg cctctgtgtc ctgtccttcc 840
tggaagtcag gactctgctt cctcagggag cccggggaag gcggagctca gtggccacag 900
gccgagggcc atggggccgc tcagtcccgt tggggttgtc ctgagttgag cctgggggggg 960
ccgtcctgcc cgcctaagag atgcccccag caccgcacac tcgtggttcc caataaactc 1020
ctscctgcgg cggaggtttt atagcaaaaa aaaaaaaaa aaaacaaaa aaaaaaaa   1078
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<210> 593
<211> 2492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2452)
<223> n equals a,t,g, or c

<400> 593
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ggcctgagga cttcgacgac gccgcctacg agaagttttt ctccagctac ctggtcacgc 180
tcacccgcag gcgatcaaat ggtcccggct gctgcagggc ggggcgtcc ccaggagccg 240
gacagtgaag cgctatgtcc ggaaaggggt ccgctggag caccgtgccc gcgtctggat 300
ggtgctgagt ggggcccarg cgcaratgga ccagaatccc ggctactacc accagcttct 360
ccagggagag agaaacccca ggctggagga cgccatcagg acagacctga accggacctt 420
ccccgacaac gtgaagttcc ggaagaccac ggacccctgc ttacagagga ccctgtacaa 480
tgtgctgctg gcatatgggc accataacca gggagtgggc tactgccagg gaatgaattt 540
tatagcagga tatctgattc ttataacaaa taatgaagaa gaatcttttt ggctgttaga 600
tgctcttgtt ggaagaatac taccagatta ctacagcccg gccatgctgg gcctgaagac 660
cgaccaggag gtcctcgggg agctggtgcg ggcgaagctg ccggctgtgg gggccctgat 720
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agccaccagc gttccagaca tttgcgataa gtttaagcag ataaccaaag ggagtttcgt 960
gatggagtgt cacacgttta tgcaggtgtg tggggctgca cgtggctcag tccctccca 1020
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yggcaccag tgggcatagg gcacaggatg agcctccagc tctgtcctgc atctgccccc 1140
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gagaagacca tgttggccgg gcgcggtggc tcacgcctgc agtcccagca ctttgggagg 1560
ccaaggcgtg tggatcacct gaggtcagga gttcaagacc agcctggcca acacggtgaa 1620
accccgtctc tactaaaaaa tacaaaaatt agccaggtgt ggtggctcac gcttatgtag 1680
tcccagttac tcgggaggct gaggcacgag aatcacttga acctgggagc ggaggttgca 1740
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507

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gtgagccgag atcgcgccac tgcactccag cctgggcaac agagtgagac tctgtctcaa 1800
aaaaaaaaaa aaagtctaat ggaagcagat ggccttttct tccaccgttt gattcattta 1860
acatttctga gcagcaaagc tgcagtcyta ggccccaggg caggagtgag atggtgacaa 1920
tctgtgggtc accccagaag cccttggatg tggactgctc ctccctcacc tcacacgagg 1980
cctgtctgtc tgcctgccag tctgggagag ctaacgtaga aatgggttgt tgggtttgtt 2040
ttyaaactaa ctgtttgcct tccagaaaat attttcagaa cctggaagct tatccatggc 2100
caccgtcgcc aangctccgc gagagctgca gggcccggct gctggcacag gggtgagcgt 2160
gcctgtcccc tgcgttgctc gtctctacac tgacgatgcc cctttccaga gttgacactg 2220
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ttgtgaattt tttaaaagag cagtttaaaa tcaggtcatt ctaccagctt ttgatgatta 2340
gctatgaagt catacttttt aaagaaaact tatttttacc tgagagatca ataatatata 2400
aaatgtgagt gtgggtttgt atctaataaa gtatgccaac acctgtgttt gngatcagtt 2460
ctcagctgac tggaaattaa catagtgagt gg                                2492
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<210> 594
<211> 1904
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1878)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1893)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1895)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1903)
<223> n equals a,t,g, or c

<400> 594
aatgaatgta ccggtccgga attccgggtc gacccacgcg tcgcgtccgc cccgcgagca 60
cagagcctcg cctttgccga tccgccgccc gtccacaccc gccgccagct caccatggat 120
gatgatatcg ccgcgctcgt cgtcgacaac ggctccggca tgtgcaaggc cggcttcgcg 180
ggcgacgatg ccccccgggc cgtcttcccc tccatcgtgg ggcgccccag caccagggc 240
gtgatggtgg gcatgggtca gaaggattcc tatgtgggcg acgaggccca gagcaagaga 300
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gagaaaatct ggcaccacac cttctacaat gagctgcgtg tggctcccga ggagcacccc 420
gtgctgctga ccgaggcccc cctgaacccc aaggccaacc gcgagaagat gacccagatc 480
atgtttgaga ccttcaacac cccagccatg tacgttgcta tccaggctgt gctatccctg 540
tacgcctctg gccgtaccac tggcatcgtg atggactccg tgacggggt cacccacact 600
gtgcccatct acgaggggta tgccctcccc catgccatcc tgcgtctgga cctggctggc 660
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ttcgagcaag agatggccac ggctgcttcc agctcctccc tggagaagag ctacgagctg 840
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gacgagtccg gcccctccat cgtccaccgc aaatgcttct aggcggacta tgacttagtt 1260
gcgttacacc ctttcttgac aaaacctaac ttgcgcagaa aacaagatga gattggcatg 1320
gctttatttg ttttttttgt tttgtttgg tttttttttt tttttggct tgactcagga 1380
tttaaaaact ggaacggtga aggtgacagc agtcggttgg agcgagcatc ccccaaagtt 1440
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tgagatgcrt tgttacagga agtcccttgc catcctaaaa gccaccccac ttctctctaa 1560
ggagaatggc ccagtcctct cccaagtcca cacaggggag gtgatagcat tgctttcgtg 1620
taaattatgt aatgcaaaat tttttaatc ttcgccttaa tacttttta ttttgttta 1680
ttttgaatga tgagccttcg tgcccccct tccccctttt ttgtccccca acttgagatg 1740
tatgaaggct tttggtctcc ctgggagtgg gtggaggcag ccagggctta cctgtacact 1800
gacttgagac cagttgaata aaagtgcaca ccttaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaanag gggggggccc ccnangggc ccna                   1904
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<210> 595
<211> 337
<212> DNA
<213> Homo sapiens

<400> 595
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cttcagcrgt tcccaggctc cctacctgag tccagctgtc cccttttctg ggactattca 180
aggaggtctc caggacggac ttcagatcac tgtcaatggg accgttctca gctccagtgg 240
aaccagtgga aatgacattg ccttccactt caaccctcgg tttgaagatg gagggtacgt 300
ggtgtgcaca gcaggcagaa cggaagctgg ggggccc                          337
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<210> 596
<211> 1288
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1285)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

<400> 596
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gggaaagccg cgggaagggt actccaggcg agaggcggac gcgagtcgtc gtggcaggaa 120
aagtgactag ctcccctcg ttgtcagcca gggacgagaa cacagccacg ctcccacccg 180
gctgccaacg atccctcggc ggcgatgtcg gccgccggtg cccgaggcct gcgggccacc 240
taccaccggc tcctcgataa agtggagctg atgctgcccg agaaattgag gccgttgtac 300
aaccatccag caggtcccag aacagtttty ttctgggctc caattatgaa atgggggttg 360
gtgtgtgctg gattggctga tatggccaga cctgcagaaa aacttagcac agctcaatct 420
gctgttttga tggctacagg gtttatttgg tcaagatact cacttgtaat tattccaaaa 480
aattggagtc tgtttgctgt taatttcttt gtgggggcag caggagcctc tcagcttttt 540
cgtatttgga gatataacca agaactaaaa gctaaagcac acaaataaaa gagttcctga 600
tcacctgaac aatctagatg tggacaaaac cattgggacc tagtttatta tttggttatt 660
gataaagcaa agctaactgt gtgtttagaa ggcactgtaa ctggtagcta gttcttgatt 720
caatagaaaa atgcagcaaa cttttaataa cagtctctct acatgactta aggaacttat 780
ctatggatat tagtaacatt tttctaccat ttgtccgtaa taaaccatac ttgctcgtat 840
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gtataaatgt tgtataaaat tcttttacag ctacagattt ttaaatagga tcattgtaar 1140
gattaatgag ataatgtttt aacatagtgc ctgggtccat gataagtgtt aaatttttca 1200
attaccctca gtaactgata atgtagcaag aaaatactct atattcagac agacctgaat 1260
ttgatcccag ctctatacta ccntngna   1288

<210> 597
<211> 1052
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (937)
<223> n equals a,t,g, or c

<220>
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<222> (943)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (995)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1004)

510

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1009)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1040)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1051)
<223> n equals a,t,g, or c

<400> 597
agcgcctgca ggtcgacact agtggatcca aagaattcgt gcacgtggaa aaaccaatct 60
gagaagaaca acctaccttg tccttgatga agcagataga atgcttgata tgggctttga 120
accccaaata aggaagattg tggatcaaat aagacctgat aggcaaactc taatgtggag 180
tgcgacttgg ccaaaagaag taagacagct tgctgaagat ttcctgaaag actatattca 240
tataaacatt ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt 300
gtgtcatgac gtagaaaagg atgaaaaact tattcgtcta atggaagaga tcatgagtga 360
gaaggagaat aaaaccattg tttttgtgga aaccaaaaga agatgtgatg agcttaccag 420
aaaaatgagg agagatgggt ggcctgccat gggtatccat ggtgacaaga gtcaacaaga 480
gcgtgactgg gttctaaatg aattcaaaca tggaaaagct cctattctga ttgctacaga 540
tgtggcctcc agagggctag atgtggaaga tgtgaaattt gtcatcaatt atgactaccc 600
taactcctca gaggattata ttcatcgaat tggaagaact gctcgcagta ccaaaacagg 660
cacagcatac actttcttta cacctaataa cataaagcaa gtgagcgacc ttatctctgt 720
gcttcgtgaa gctaatcaag caattaatcc cmagttgctt cagttggtcg aagacagagg 780
ttcaggtcgt tccaggggta gaggaggcat gaaggatgac cgtcgggaca gatactctgc 840
gggcaaaagg ggtggattta ataccttta g agacagggaa aattatgaca gaggttactc 900
tagcctgctt aaaagagatt ttggggcaaa aactcanaat ggnggttaca gtgcttgcaa 960
attcaccaat gggagctttg gaagtaattt tgggncttgc tggnattcng gaccagtttt 1020
aggactggga attccaacan gggccttacc nc                              1052

<210> 598
<211> 2093
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (969)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1422)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (1425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1481)
<223> n equals a,t,g, or c

<400> 598
ccgccgccat gggaccacgt ggggtaagct gggttgagag cagcgggcgc cgttaaggag 60
ctgcagagtc acgtctgtgc aaagactgca ccagagccct tctgtgtcac ggcgggctgt 120
gcacccatgc acacacctac gcacacacaa cactccgcac tgcagtatat tcttgccaaa 180
gatttccttt aaaagcaagc acttttacta attattattt tgtaaatgtt tatcttcttc 240
tgtcttctcc ctccctgaat ctattttact gttgtttatt gttgaatctg tgtgtcagcc 300
aggagagcgc tgtctggcct tgaacatggg ctgggatggg aaagggtctg ggagaagatg 360
ggcaacaaag agccagggag tcatggacat cgcagcgacg cagaccccag caggttcagt 420
cccgtgctgc caccagctgt ccagctgggt gtctggaggg aagagggcag aggagggtca 480
tgtcccttca gctggggggag gggcccagtg agctccacgt ggcttttttcc caaagggagc 540
aagagggaag gattgggcga gaaaacaatg gagaggggac ctgcgaagga aaacagggag 600
gaagtgagcg gtttgatcag cctgctatca cggtgttctg gctctcttat ttagccaggc 660
gcttaaggga cagatacatc acatcctaag tttgggaaag gcctttgacc catgtcatct 720
gagcgtctcc tccagtagct ctgaaagctg tggacaccaa tggccaggat tccttctccc 780
ctggtttttg aggatccctg ggtcttctga gactggccag gagagggatg gtggggccag 840
tggttgtgtg aaagcaggag gggcagccct cctggacaag tgtgatcccc ctataaacgg 900
ctctcaggag gttagtgagt aggagattct gccttgttct gatgagcctg tgcaggggct 960
ccaggggganc atgctgtcca ggggggcacag aagggtggtg agtgtgatca aatctagtct 1020
cactcccact ttttagtctc actcctactt ttgtccacca cccctgcctc ctggatcttc 1080
tcccactttt tttttcagct ttaggacctg gggagatcct gtgagtcaag gcagacaccc 1140
aatcctgccc ccacactcgg ggtcctccaa gaggttgggg ggcagagtcc cagagcagcc 1200
ctttacccca ggtccaggcc ctggaatcct gagactcgcg tttccttggc cagtggtaac 1260
acaggacgtg tgtgcgcatg tgcaagtgtg gatgtatgtg tgtgcgtgtg ttttgctcat 1320
ttctttaggg aacttgggag tcggggttgg aggtgctggg caatggaact tcaaattcaa 1380
tgtcgcccag cagtgagggg agtcgggagg tgaggcctgt angcnaacca attggtggag 1440
tctcagcgat acccaggtga gaagtggttc acccagaggg ncagggtggg ggcctcgggc 1500
agatctgtcc ctcttggccc ctctgtcctc aaatgtccaa aatgttggag gacctctgtt 1560
catatcccac gcctgggctc ttgccagcag tggagttact gtagagggat gtcccaagct 1620
tgttttccaa tcagtgttaa gctgtttgaa actctcctgt gtctgtgttt tgtttgtgcg 1680
tgtgtgtgag agcacatcag tgtgtgcagg ctgtgtttcc ccatttctct cctcccttca 1740
gacccatcat tgagaacaaa tgtaagaaat cccttcccac caccctccct gcctcccagg 1800
ccctctgcgg gggaaacaag atcacccagc atccttcccc accccagctg tgtatttata 1860
tagatggaaa tatactttat attttgtatc atcgtgccta tagccgctgc caccgtgtat 1920
aaatcctggt gtmtgctcct tatcctggac atgaatgtat tgtacactga cgcgtcccca 1980
ctcctgtaca gctgctttgt ttctttgcaa tgcattgtat ggctttataa atgataaagt 2040
taaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa        2093
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<210> 599
<211> 562
<212> DNA
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<213> Homo sapiens

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (524)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (549)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (561)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<400> 599
gcttactgca gcctcgatct tctgggttca agtgatcttc tgcctcagcc tctcgtgtac 60
ctgaggccac aggcacacac cgccacacct ggctaatttt tattattttt tttgtagaga 120
cgaggtctca ctatgcccag gttggtctca aactcctgtg ctcaagcaat cctcccatct 180
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tggctcccta agtgctggga ttataggcat gagccaccgt gcccggcctc atgtctgcat 240
gttaaaagtt ctgagaattc ctatggaaaa taaatttgac tttgcttaat gcagttcctc 300
taaacttact taattccttt ttctttttttt ctttactatt tattaattnt tctctttttct 360
cagaccttgc agggatgaaa ggnccccttt tctcaaaacc ctcttatgat ctctacactc 420
tgcaagggct tctgaangac agcangctga gaaaggccga tcctaacact tanctctttg 480
aagacacttt taaaactggt aacagtattt atagctttaa aagnacccat ggttcttaag 540
gcccgttant aaaaaaaaaa nn                                            562
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<210> 600
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (444)
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514

<220>
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (507)
<223> n equals a,t,g, or c

<400> 600
nngcaagnng ncaccaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggnacgagg gaggctgagg 120
ctggagtgca gtggtgtgat ctcggctcac tgcaacctct gcctcccagg ttccagcaat 180
tctcctgcct cagcctccct agtggctggg atgacaggcg cctgccatca tgcctgacta 240
gttttttgtat ttttagtaga dacggcgttt caccatgttg gccaggctgg tctcaaactc 300
ctgacctcag gtgatccgcc tacctcagcc tcccaaagtg ctgggattac aggcgtgatc 360
caccacacct ggcccttgca atcttctact ttaaggtttg cagagataaa ccaatanatc 420
cacaccgtac atctgcaata tganttcaag aaaggaanta gtaccttcaa tacttaaaaa 480
tagtcttcca canaaaatac tttattnctg atctatacaa attttcag   528

<210> 601
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c
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516

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 601
gcctacacgc cgccgcttgt gctgcagcca tgtctctagt gatccctgaa aagttccagc 60
atattttgcg agtactcaac accaacatcg atgggcggcg gaaaatagcc tttgccatca 120
ctgccattaa gggtgtgggc cgaanatatg ctcatgtggn gttgaggaaa gnanacattg 180
acctnaccaa nagggcggna gaactcactg angatgangt ggaacgtgtg atcaccatta 240
tgcagaatcn acgccagtac aagatcccag actggttctt gaacagacag aatgatngta 300
angatnaatc tacttcaagc taacatgcta tcatttctac nttgagtact gctaaggttt 360
ctttccacaa cttgtacaca atgttattna ctgcccagtt tataatttcc ctnttggttc 420
ccattttaag acttatttaa ttantatgcn ttttaaattt ttgagacntg ataga   475

<210> 602
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

517

<400> 602
cacattctca ggaactctcc ttctttgggg agcctcagat gggaagggac tcgagcccca 60
cctgtccctg gactctggaa tgtntggctg aagttgaggn tctcttactc tctaggccac 120
ggaattaacc cgagcaggca tggaggcctc tgctctcacc tcatcagcag tgaccagtgt 180
ggccaaagtg gtcagggtgg cctctggctc tgccgtagtt ttgcccctgg ccaggattgc 240
tacagttgtg attggaggag ttgtggccat ggcggctgtg cccatggt   288

<210> 603
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 603
ggcgccccgg agagctcttg cgcgtcttgt tcttgcctgg tgtcggtggt tagtttctgc 60
gacttgtgtt gggactgctg ataggaagat gtcttcagga aatgctaaaa ttgggcaccc 120
tgcccccaac ttcaaagcca cagctgttat gccagatggt cagtttaaag atatcagcct 180
gtctgactac aaaaggaaaa tatgttgtgt tcttctttta ccctcttgac ttcacctttg 240
tgtgccccac ggagatcatt gctttcagtg ataggcaga agaatttaag aaactcaact 300
gccaagtgat tggtgcttct gtggattctc acttctgtca tctagcatgg gtcaatacac 360
ctaanaaaca aggaggactg ggacccatga acattccttt ggtatcanac ccaacncaca 420
nttgntcagg at   432

<210> 604
<211> 371
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<400> 604
atttagtgtg ataaggagaa gaacctgctg catgtcacag acaccggtgt aggaatgacc 60
agagaagagt tggttaaaaa ccttggtacc atagccaaat ctgggacaag cgagttttta 120
aacaaaatga ctgaagcaca ggaagatggc cagtcaactt ctgatttgat tggccagttt 180
ggtgtcggtt tctattccgc cttccttgta gcagataagg ttattgtcac ttcaaaacac 240
aacaacgata cccagcacat ctgggagtct gactccaatg antttctgt naattgctga 300
cccaagaggg aaacactcta ggacggggga acgacaattt acgtggagta tggaccaatt 360
tccttattaa g   371

<210> 605
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<400> 605
ggcacagccg gcatcgtggt gtgttcttga ctccgctgct cgccatgtct tctcacaaga 60
ctttcaggat taagcgattc ctggccaaga aacaaaagca aaatcgtccc attccccagt 120
ggattcggat gaaaactggg aaataaaatc aggtacaact ccaaaaggag acattggaga 180
agaaccaagc tgggtctatg aaggaattgc acatgagatg gcacacatat ttatgctgtc 240
tggaaggtgc acgatccatg ttaccatatg caagctggaa aatgtgcacc antatctggg 300
agattttcga cgtgtttttc cnctctggan nctgtttatg gnacaaggtt ggtttggttt 360
ggntccatta aattaaatta ggtaaaggcc cc   392

<210> 606
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<400> 606
gcgtcttcag ggtggaagcc tggcgcacgt ccggagagac acccgccatt tcacccagta 60
agcgggcccg gcctgcggag gtgggcggca tgcagctccg ctttgcccgg ctctccgagc 120
acgccacggc ccccacccgg ggctccgcgc gcgccgcggg ctacgacctg tacagtgcct 180
atgattacac aataccacct atggagaaag ctgttgtgaa aacggacatt cagatagcgc 240
tcccttctgg gtgtnatgga agagtggctc cacggtcagg cttggctgca aaacacttta 300
ttgatgtagg antggtgtca tagatgaaga ttataagagg aatgttggtg ttgtactgtt 360
taattttngg caagaaagtt tgaagtcaaa aaaggtgatc gaattgcaca gtcatttgca 420
acggattttt tatccagaaa ta   442

<210> 607
<211> 182
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)

520

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<400> 607
gcaccatggc ggttggcaag aacaagcgcc ttacgaaagg cggcaaaaag ggngccaaga 60
agaaagtggt tgatccattt tttaagaaag attggtatga tgtgaaagca cctgctatgt 120
tcantataag anatattgga aagacgctcg tcaccaggac ccaaggaacc aaaattgcat 180
ct   182

<210> 608
<211> 673
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (561)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (603)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (604)

521

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (630)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (652)
<223> n equals a,t,g, or c

<400> 608
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nncaaaatta acccectaat aaaattaatt aaccactcac tcatcgacct ccccacccca 60
tccaacatct ccgcatgatg aaacttcggc tcactccttg gcgcctgcct gatcctccaa 120
atcaccacag gactattcct agccatgcac tactcaccag acgcctcaac cgccttttca 180
tcaatcgccc acatcactcg agacgtaaat tatggctgaa tcatccgctg ccttcacgcc 240
aatggcgcct caatattctt tatctgcctc ttcctacaca tcgggcgagg cctatattac 300
ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct tgcaactata 360
gcaacagcct tcataggcta tgtcctcccg tgaggccaaa tatcattctg aggggccaca 420
gtaattacaa acttactatc cgccatccca tacattggga cagacctagt tcaatgaatc 480
tgaggaggct actcagtaga cagtcccacc ctcacacgat tctttacctt tcacttcatc 540
ttgcccttca ttattggcag ncctacagna ctcacctcta tttttttgccg aaacggggat 600
canncaaccc ccttagggaa tcacctnccn tttccgataa aaatcaacct tncacccttt 660
actacacaat cat                                              673
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<210> 609
<211> 553
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

522

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<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 609
gcggacgcgt gggttttaat acaaatgtta tttatagttt acaatgaatg cactgcataa 60
aaacttttgg acgacaatgg gaacattgct gaagaactga gcattctcaa atggaacaca 120
gacagtgtag aagaattcct gagtgaaaag ttggaacgca tataaatctt gcttaaattt 180
tgtcctatcc ttttgttacc ttatcaaatg aaatattaca gcacctagaa aataatttag 240
ttttgcttgc ttccattgat cagtctttta cttgaggcat taaatatcta attaaatcgt 300
gaaatggcag tatagtccat gatatctaag gagttggcaa gcttaacaaa acccattttt 360
tataaatgtc catcctnctg catttgttga taccactaac aaaatgcttt gtaacagact 420
tgcggttaat tatgcaaatg atagtttgng ataattgggg ccaagtttta cgaacaacag 480
atttctaaat tagaganggt taccaggaca gatgatacta tgcctaaggg ctgggngccc 540
ttttnaagga aga                                                     553

<210> 610
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
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<222> (225)
<223> n equals a,t,g, or c

<220>
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<222> (281)
<223> n equals a,t,g, or c
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<220>
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<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 610
acccacgcgt ccggctnncc gatgagacca atatatgcaa tggtaagcca gtagatggac 60
tgactacttt gcgcaatggg acattagttg cattccgagg tcattatttc tggatgctaa 120
gtccattcag tccaccatct ccagctcgca gaattactga agttttgggg aatcctttcc 180
cccattgata ctgttttact aaggggaatt tttcnagaaa aggtngcagc attcagcagt 240

524

```
atatttataa acaggaacct gtacagaagt gcccttggaa naaggcctgc tctaaaatta 300
tccagtggta tngngnaacg acacaggtta agagacgtcg cttnaacgtg ctaaaaggac 360
ctttccaana cacaccatca gaatccataa tcacctgcca aatggggtat cnagaccaag 420
gggcctccan aaggagttaa gnggttaccg tggggngg                        458
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<210> 611
<211> 565
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<400> 611
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aagcnganac caaccctcac taaagggaac aaaagctgga gctccaccgc ggtgcggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggttgc agtgagccga 120
gatcgcacca ttgcactcca gtctgggcaa cagagtgaga ttccgtctca aaaaaaaaaa 180
gaaaaggaaa aaaaaatagc attataccte ttccttgtct caaccgccat gaaaattctg 240
aacactccaa attcagttga ataatccaaa acaaaattta taagtataaa ataattttac 300
ttcttatagt aaatagtatac tttaaaaagc ctcagggtat attatcttct aaacagctac 360
aattcagtgc agctacatta accaactatg ttctctagtt gaggaacaac taggcctatt 420
tcactgctgt gtagcctcag tgcctaacat gggtgccaaa taaatattng nggattacac 480
tgaattgtaa aaaccattcg tttttgttta caattgccaa aaatctcaaa aggncctgta 540
tttatgtaat tctttgaaat tatta                                      565
```

<210> 612
<211> 442
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<400> 612
gaccagggtt gctccgtccg tgctccgcct cgccatgact tcctacagct atcgccagtc 60
gtcggccacg tcgtccttcg gaggcctggg cggcggctcc gtgcgtattg ggccgggggt 120
cgcttttcgc gcgcccagca ttcacggggg ctccggcggc cgcggcgtat ccgtgtcctc 180
cgcccgcttt gtgtcctcgt cctcctcggg gggctacggc ggcggctang gcggcgtcct 240
gaccgcgtcc ganggggctgc tggcgggcaa cgagaagcta accatgcaga actnaangac 300
cgcttggctt ctactggana agttcgcncc tgnaggggca aagggaacta aaagttaaat 360
ccgcnattgt acaaaacagg gcttggcctt cccggataaa gcattataaa gancntcagg 420
aattggggaa aaatttttgn nc                                          442

<210> 613
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<400> 613
ggcanaggag aactccagga ttgtcctgca gatcgacaac gcccgtttgg ctgcagatga 60
cttccgaacc aagtttgaga cggaacaggc tctgcgcatg ancgtggagg ccgacatcaa 120
cggcctgcnc aggtgctgga tgagctgacc ctggcccaga accgaccttg gngatgcagt 180
tcgangcctn angaagagnt ggcctaccta agnaggaccc tgaggggaa tcaattncgt 240
taagggccca atgggaggcc attaattttg anttggttcc ttccggacct tttggccant 300
cntgtt   306

<210> 614
<211> 555
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 614
ggcgactaca gccactacta cacgaccatc caggacctgc gggacaagat tcttggtgcc 60
accattgaga actccaggat tgtcctgcag atcgacaatg cccgtctggc tgcagatgac 120
ttccgaacca agtttgagac ggaacaggct ctgcgcatga gcgtggaggc cgacatcaac 180
ggcctgcgca gggtgctgga tgagctgacc ctggccagga ccgacctgga gatgcagatc 240
gaaggcctga aggaagagct ggcctacctg aagaagaacc atgaggagga aatcagtacg 300
cttaggggcc aagtgggagg ccaggtcagt gtggaggtgg attccgctcc gggcaccgat 360
ctcgccaaga tcctgagtga catgcgaagc cnatatgagg tcatggccna gcagaaccgg 420
aaggatgctt aancctggtc accagcccgg actgaagaat tgaacccgga ggtcgcttgc 480
cacacggagc aacttcngat gagcaggtcc aaggttactg acctgcggcg caacccttaa 540
ggncntgaga atgaa   555

<210> 615
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)

529

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<400> 615
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tganagaaat taaccctcac taaagggnac aaaagctgga gctccaccgc ggtgcgnccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggctaa ggctgcgttg 120
gggtgaggcc ctcacttcat ccggcgacta gcaccgcgtc cggcagcgcc agncctacac 180
tcgcccgcgc catggcctct gtctccgagc tcgcctgcat ctactcggcc ctcattctgc 240
acgacgatga ggtgacagtc acggaggata agatcaatgc cctcattaaa gcagccggtg 300
taaatgttga gcctttttgg cctggcttgt ttgcaaaggc cctggccaac gtcaacattg 360
ggagcctcat ctgcaatgta ggggccggtg gacctgctcc agcagctggt gctgcaacca 420
gcaggaggtc ctgccccctc cactgctgct gctccagctg aggagaagaa agtggaagca 480
aagaaagaag aatccgagga gtctgatgat gacatgggct ttggtctttt tgactaaacc 540
tcttttataa catgttcaat aaaaagctga acttt                         575
```

<210> 616
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<400> 616
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ctcgtgccga attcggcacg agccgccgcc tccgccgcag acgccgccgc gatgcgctac 60
gtcgcctcct acctgctggc tgccctaggg ggcaactcct cccccagcgc caagggnatc 120
aagaagatct tggacaacnt gggtatcgag gcggacgacg accggctcaa caaggttatc 180
agtgagctga atggaaaaaa cattgaagac gtcattgccc agggtattgg caagcttgcc 240
agtgtacctg ctggtggggc tgtagccgtc tctgctgccc caggctctgc agccccctgct 300
gctggttctg cccctgctgc agcagaggag aagaaagatg agaaga           346
```

530

```
<210> 617
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 617
gggcagggct gagccagcga cgccctccat tcactctccg cgcccgttct ccggctgtcc 60
tcccgttccg ctgcccgccc tgccaccatg acggaacagg ccatctcctt cgccaaagac 120
ttcttggccg gaggcatcgc cgccgccatc tccaagacgg ccgtggctcc gatcgagcgg 180
gtcaagctgc tgctgcaggt ccagcacgcc agcaagcaga tcgccgccga caagcagtac 240
aagggcatcg tggactgcat tgtccgcatc cccaaggagc agggcgtgct gtccttctgg 300
aggggcaacc ttgccaacgt cattcgctac ttccccactc aagccctcaa cttcgncttc 360
aaggataagt acaagcagan cttcctgngg ggcgtgnaca agcacacnc          409

<210> 618
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

.<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<400> 618
ggcanagcnc aaagacaggc ttttnagatt ggatctccgt ggcgtactat ggatgcttcc 60
gagagggggc gactattata caagttggca agttgatcaa agaagctgcc gggaaaagca 120
atctgaagag ggtgaccctg gagcttggag gaaagagccc ttgcattgtg ttagctgatg 180
ccgacttgga caatgctgtt gaatttgcac accatggggt attctaccac cagggccagt 240
nttgtatagc cgcatncagg atttttgtgg aagaatcaat ttatgatgag tttgttcgaa 300
ggagtgttga gcgggttaag antatatcct tgggaantcc tttgacccca gnagttcann 360
caagnccntc agattgacaa ggaccatttg gtaaatactt gaccccattg agagtnggaa 420
gaaagaaggg gccaantgga tntggnggag gccctggggg ataaaggtan ttg      473

<210> 619
<211> 604
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
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533

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (587)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (593)
<223> n equals a,t,g, or c

<400> 619
cgacnttccc ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta 60
gaactagtgg atcccccggg ctgcaggaat tcggcacgag gtggtccccc tggcagggac 120
aaatggcgag actaccaccc aagggttgga tgggctgtct gagcgctgtg cccagtacaa 180
gaaggacgga gctgacttcg ccaagtggcg ttgtgtgctg aagattgggg aacacacccc 240
ctcagccctc gccatcatgg aaaatgccaa tgttctggcc cgttatgcca gtatctgcca 300
gcagaatggc attgtgccca tcgtggagcc tgagatcctc cctgatgggg accatgactt 360
gaagcgcttg ncagtatgtg accgaaaagg tgcttggctt gctgctacaa ggctcttgag 420
tgaccaccac atctacctgn aaggcacctt gctgaagccc aacatggtcc cccaggccat 480

534

```
gcttgcactc anaagtttttn ttatgaagga gattgcccat ggcgaacccg tctcaancgc 540
tgtgcccgca caantgcccc cccgcttgtc acttgggatc aacnttncct gtnttggaag 600
gcca                                                              604
```

<210> 620
<211> 312
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<400> 620
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gngccaacag ccttgcctgt caaggaaagt acactccgag nggtcaggct ggggctgctg 60
ccagcgagtc cctcttcgtc tctaaccacg cctattaagc ggaggtgttc ccaggctgcc 120
cccaacactc caggccctgc cccctcccac tcttgaagag gaggccgcct cctcggggct 180
ccaggctggc ttgcccgcgc tctttcttcc ctcgtgacag tggtgtgtgg tgtcgtctgt 240
gaatgctaag tccatcaccc tttccggcac actgccaaat aaacagctat ttaaggggga 300
aaaaaanann nn                                                     312
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<210> 621
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 621
gatgattgtg aattcaaggc tgaaggaaat agcaaattca cctacacagt tctggaggat 60
ggttgcacga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 120
gctgtgagac tacctattgt ngatattgca ccctatgaca ttggtggtcc tgatcaagaa 180
tttggtgtgg acntnggncc tgtttgnttt ttataaacca aactctatct gaaatcccaa 240
caaaanaa   248

<210> 622
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c
```

537

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<400> 622
aatncggcac gaggcaccnc ctgcgcaccc ncaatcagtc cagcgatgag ctgcagctga 60
gtatgggaaa tgccatgttt gtcaaagagc aactcagtct gctggacagg ttcacggagg 120
atgccaagag gctgtatggc tccgaggcct ttgccactga ctttcaggac tcagctgcag 180
ctaagaagct catcaacgac tacgtgaaga atggaactcg agggactata acctgaacga 240
catacttctc cagctgaagt acacaggcaa tgncagcgna ctnttcatcc tgcctgntca 300
ngncaagatn gnggaagtgg aagccatgtt ggttttcaga gncc   344

<210> 623
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<400> 623
gctcaaaggg agacccgggt ttccagggag caaaggcgag gctggatttt tcggaatacc 60
cggtctgaag ggtctggctg gtgagccagg ttttaaaggc agccgagggg accctgggcc 120
cccaggacca cctcctgtca tcctgccagg aatgaaagac attaaaggag agaaaggaga 180
tgaagggcct atggggctga aaggatacct gggcgcaaaa ggtatccaag gaatgccagg 240
catcccangg ctgtcaggaa tccctgggct gcctgggagg cccggncaca tcanaggaat 300
caaggganac atngga   316

538

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<210> 624
<211> 445
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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<220>
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<220>
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<222> (426)
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<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c


<400> 624
ggcagaggtg aggaggtgtg gtaccgtgtg ctacagatcg tcaccaaccg tgaatgacgt 60
ccagggctat gcgccaagac cgtctttaag gcgctccagg cccctgcctt gnacgaagaa 120
catggtgaag gttggcggct acatccttgg ggagtttggg aaacctgaat tntggggacc 180
cccgntncca gcccccagt ggcagttctc cctgctccac tncaagttcc atctgtgaca 240
ngtggccagg ggncgctgct gctgtnccac ctgacatcaa gttcatcaac ctctttcccc 300
gagaccaagg ncaccatcca gggggtnctg ngggtcggt tttccagttg cgcaatgttg 360
acgtggagtt gcagcaggag ncntggagta acttcacctt cagttcatgg gtcagcaaca 420
agttcnggnc aggtgttnga ggagt                                       445


<210> 625
<211> 401
<212> DNA
<213> Homo sapiens


<220>
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540

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<222> (380)
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<222> (389)
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<222> (390)
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<220>
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<222> (393)
<223> n equals a,t,g, or c

<220>
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<222> (397)
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<400> 625
tcgacccacg cgtccgggcg ggtccgccgn gantaagacc cgctgcccgg cacctctagg 60
gtgtgatctg accggtcgcg ggggaccagc ccagccctat ttcggctcga gcgaggaact 120
tctgctcccg tgactgaact ctgatcttga tagagagtcc cggccatggc agccaaagga 180
ggcaccgtca aagctgcttc agcattcaat gccactgaag atgcccagac cctgaggaag 240
gccatgaagg ggcttggcac cgacgaagat gccatcatca gcgtcctcgc ctaccgcaac 300
acagcccagc gccaggaaat caggacggcc ttacaagagc accattcggc aggggacctt 360
gtgttaagga acggaccccn ttttgtttnn gantggngtg a   401

<210> 626
<211> 315
<212> DNA
<213> Homo sapiens

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<222> (55)

541

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<220>
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<222> (103)
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<220>
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<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
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<222> (257)
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<220>
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<222> (303)
<223> n equals a,t,g, or c

<220>
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<222> (308)
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cggtaccggt ccctggtgta ccagctgaac tttgatcaga ccctgaggaa tgtanataag 60
gctggcacct gggcccccccc gggagctggt gctggtggtc cangtgcata accggcccga 120
atacctcana ctgctgctgg actcacttcg aaaagcccag ggnaattgac aacgtcctcg 180
tcatctttag ccatgacttc tggtcgaccg agatcaatca gctgatcgcc ggggtgaatn 240
tctgtccggt tctgcangtg ttctttcctt tcagcattca gttgttccct aacganttttc 300
cangttantg accta                                                  315

<210> 627
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<211> 412
<212> DNA
<213> Homo sapiens

<220>
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<222> (211)
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<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<400> 627
gaaaaagatg agtatgcctg ccgtgtgaac catgtgactt tgtcacagcc caagatagtt 60
aagtgggatc gagacatgta agcagcatca tggaggtttg aagatgccgc atttggattg 120
gatgaattcc aaattctgct tgcttgcttt ttaatattga tatgcttata cacttacact 180
ttatgcacaa aatgtagggt tataataatg ntaacatgga catgatcttc tttataattc 240
tactttgagt gctgtctcca tgtttgatgt atctgagcag gntgctccac aggtagctct 300
agcagggctg gcaacttann aggtggngag cagagaattc tcttatccaa catcaacatc 360
ttggtcagat ttgaactctt caatctcttg cactcaaagc ttgataagga aa         412

<210> 628
<211> 577
<212> DNA
<213> Homo sapiens

<220>
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<222> (52)
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<220>
<221> misc feature
<222> (408)
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<220>
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<222> (418)
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<220>
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<222> (424)
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<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c


<220>
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<222> (458)
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<220>
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<222> (460)
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<220>
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<220>
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<222> (518)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (560)
<223> n equals a,t,g, or c

<400> 628
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg cggccgctct anaggatcca 60
agcttacgta cgcgtgcatg cgacgtcata gctcttctat agtgtcacct aaattcaatt 120
cactggccgt cgttttacaa cgtcgtgact gggaaaaccc tggcgttacc caacttaatc 180
gccttgcagc acatccccct ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc 240
gcccttccca acagttgcgc agcctgaatg gcaaatggga cgcgccctgt agcggcgcat 300
taagcgcggc gggtgtggtg gttacgcgca gcgtgaccgc tacacttgcc agcgccctac 360
gcccggtcct ttcgtttctt cccttccttt ctcgccacgt tcgccggntt tccccgtnaa 420
gctntaaatn gggggctncc tttanggttc cgattaangn tttacgggac cttngaccca 480
aaaacttgat tagggtgatg gttacntaat gggccatngc ctgataaacg gttttgccct 540
ttgannttgg agtcccgttn ttaaaaggga ctttggt   577

<210> 629
<211> 703
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)

545

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (541)
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<221> misc feature
<222> (576)
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<220>
<221> misc feature
<222> (580)
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<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c
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546

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<222> (603)
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<220>
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<222> (621)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (632)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (651)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c

<400> 629
gactagttct agatcgcgag cggccgctct agaggatcca agcttacgta cgcgtgcatg 60
cgacgtcata gctcttctat agtgtcacct aaattcaatt cactggccgt cgttttacaa 120
cgtcgtgact gggaaaaccc tggcgntacc caacttaatc gccttgcagc acatccccct 180
ttcgccagct ggcagtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acgcgccctg tagcggcgca ttaagcgcgg cgggtgtggt 300
ggttacgcgc agcgtgaccg ctacacttgc cagcgcccta gcgnccgctc ctttcgcttt 360
cttcccttcc tttctcgcca cgttcgccgg ntttccccgt caagctctaa atcnggggct 420
ccctttangg ttccgatnta gtgctgtacg gcacctngac cccaaaaaac ttgattaggg 480
tgatggttca cgtngtggnc atcgccctga tagacggntt ttcgcccttt gacgttggag 540
nccacgttct taatagtgga ctctttggtc caaacnggan caacantgaa cccctatctc 600
ggnctattct tttgatttat nagggatttt gncgatttca ggnctattgg ntaaaaaatg 660
gatcttgntt ttaaccaaaa atttaaacgg cggaatttta agc   703

<210> 630
<211> 638
<212> DNA
<213> Homo sapiens

<220>

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<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
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<222> (72)
<223> n equals a,t,g, or c

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<222> (75)
<223> n equals a,t,g, or c

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<222> (105)
<223> n equals a,t,g, or c

<220>
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<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
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<220>
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<222> (213)
<223> n equals a,t,g, or c

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<222> (222)
<223> n equals a,t,g, or c

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<222> (245)
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<220>
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<222> (315)
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<220>
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<222> (319)
<223> n equals a,t,g, or c

<220>
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<222> (327)
<223> n equals a,t,g, or c

<220>
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<222> (329)
<223> n equals a,t,g, or c

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<222> (351)
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<220>
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<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
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549

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<223> n equals a,t,g, or c

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<222> (416)
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<220>
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<222> (449)
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<220>
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<222> (484)
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<220>
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<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (502)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (532)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (574)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (593)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (629)
<223> n equals a,t,g, or c

<400> 630
gaaaaaaaaa aaantaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
gggcggccgn tntanaggat ccaagcttac gtacgcgtgc atgcnacgtc atagctcttn 120
tatagggtca cctaaattca attcactggc cgncgtttta caacgtcgtg actgggaaaa 180
ccctggcgtt acccaactta atcgccttgc agnacatccc cntttcgcca gctggcgtaa 240
tagcnaaaag gcccgnaccg atcgcccttc ccaacagttg cgcagcctga atggcaaatg 300
ggacncnccc tgtancggng cattaancnc ggcgggtgtg gnggttaccc ncancgngac 360
cgctacactt gccagngccc tagcgcccgc tcctttcgct ttcttccctt cctttntcgc 420
cacgttcgcc ggctttcccc gtcaagctnt aaatcggggg ctccctttag ggttccgatt 480
aagngcttta cgggaccttn gnccccaaaa aaacttgatt aggggngatg gntcacngta 540
aaggggccat tgcccttgat aaaacggttn tttngccctt ttgaccttgg aantccccgt 600
ttctttaaaa aangggacct tttggttcna actgggaa   638

<210> 631
<211> 187
<212> DNA
<213> Homo sapiens

<400> 631
ctaagttcta gatcgcgagc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 60
gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtc gttttacaac 120
gtcgtgactg ggaaaaccct ggcgttaccc aacttaatcg ccttgcagca catcccccct 180
tcgccag   187

<210> 632
<211> 305
<212> DNA
<213> Homo sapiens

<220>

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<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<400> 632
cnagaagtca agcgggccgt ngncgatagc tggtacgcct gcaggtaccg gtccggaatt 60
cccgggtcga cccacgcgtc cgactagttc tagatcgcga gcggccgctc tagaggatcc 120
aagcttacgt acgcgtgcat gcgacgtcat agctcttcta tagtgtcacc taaattcaat 180
tcactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat 240
cgccttgcag cacatccccc tttcgccagc tggcgtaata gcgaagaggc ccgcaccgat 300
cgccc                                                            305

<210> 633
<211> 187
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c
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552

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<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<400> 633
ncttccttan gctcnatata ccntggntgg taccacccct cactataggg aaagctggta 60
cgcctgcagg taccggtccg gaattcccgg gtcgacccac gcgtccgaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa gggnggacga tctagaggat ccaaagctta cgtacncntn 180
natgcaa                                                          187

<210> 634
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<400> 634
ataaggnga ngagngttaa gancggatac gactcactat agggaaagct ggtacgcctg 60
caggtaccgg tccggaattc ccgggtngac ccacgcgtcc gtggaaatct gtcctccana 120
atccaggcca naaagttcac agtcaaatgg ggaggggtat tcttnatgca ggagacccca 180
ggccctggag gctgcnacat acctnaatcc tgtcccangc cggatcctnc tgaagccctt 240
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```
ttt                                                              243

<210> 635
<211> 180
<212> DNA
<213> Homo sapiens

<400> 635
cccacgcgtc cggaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 60
gaggggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 120
cttctatagt gtcacctaaa ttcaattcac tggccgtcgt tttacaacgt cgtgactggg 180

<210> 636
<211> 747
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

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<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (507)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (657)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (747)
<223> n equals a,t,g, or c

<400> 636
atnnanagac ctccatttgg attacgctgg tacgcctgca ggtaccggtc cggaattccc 60
gggtcgaccc acgcgtccgc tagttctaga tcgcgagcgg ccgctctaga ggatccaagc 120
ttacgtacgc gtgcatgcga cgtcatagct cttctatagt gtcacctaaa ttcaattcac 180
tggccgtcgt tttacaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 240
ttgcagcaca tccccctttc gccagctggc gtaatagcga agaggcccgc accgatcgcc 300
cttcccaaca gttgcgcagc ctgaatggcg aatgggacgc gccctgtagc ggcgcattaa 360
gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc 420
ccgctccttt cgctttcttc ccttcctttc tcgccacgtt cgccggcttt ccccgtcaag 480
ctctaaatcg ggggctncct ttagggntcc gatttaagtg ctttacggac ctcgaccccа 540
aaaaacttga ttagggtgat gggtcacgta gtgggccatc gcctgataga cggttttcgc 600
ctttgacgtt ggagtcacgt cttaataggg actcttgtnc aaactggaac aacactnaac 660
ctatttggct atcttttgat tataaggatt tgccgattcg gcattggtaa aaatgagtgt 720
tacaaaatta cgcgattaca aaaatan                                    747

<210> 637
<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c
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556

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<400> 637
gtagttctag atcgcgggcg gccgctctag aggatccaag cttacgtacg cgtgcatgcg 60
acgtcatagc tcttctatag tgtcacctaa attcaattca ctggccgtcg ttttacaacg 120
tcgtgactgg gaaaaccctg gcgttacccca acttaatcgc cttgcagcac atcccccttt 180
cgccagctgg cgtaatagcg aagaggcccg caccgatcgc ccttcccaac agttgcgcag 240
cctgaatggc gaatgggacg cgccctgtag cggcgcatta agcgcggcgg gtgtggtggt 300
tacgcgcagc gtgaccgcta cacttgccaa gcgccctaag cgcccgttcc tttcgctttc 360
ttcctttctt ttttngccac gttcggccgg ctttttccccg taaagcttta aatcnggggg 420
gttcccttaa ggggttccga ttaannggtt ttacgggaac ttngacccca aaaaaacttg 480
attagggggg aaggttn   497

<210> 638
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

557

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<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<400> 638
ggactagttc tagatcgcga gcggccgctc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat cgccttgcag cacatccccc 180
tttcgccagc tggcgtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acgcgccctg tagcggcgca ttaagcgcgg cgggtgtggt 300
ggttacgcgc agcgtgaccg ntacacttgc cagcgcccta gcgcccgntc ctttcgcttt 360
cttccttctt tctcggcacg gtcgnccggc tttncccgnc aagctntaaa tcggggggct 420
tccntttagg ggttccgaat taagggcttt accgggaacc ntngaacccc caaaaaactt 480
tgaattaggg tngaangggt tcacggtaa                                    509

<210> 639
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c
```

558

```
<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<400> 639
gnctagttct agatcgcgag cggcccgctc tagaggatcc aagcttacgt acgcgtgcat 60
gcgacgtcat agctcttcta tagtgtcacc taaattcaat tcactggccg tcgttttaca 120
acgtcgtgac tgggaaaacc ctggcgttac ccaacttaat cgccttgcag cacatccccc 180
tttcgccagc tggcataata gcgaagaggc ccgnaccgat cgcccttccc aacagttgcg 240
cagcctgaat ggcgaatggg acncgccctg tagcggcgca ttaagcgcgg cgggtgtngt 300
ggttacgcgc agcgtgaccg ctacacttgc agcnccctag cgcccgctcc tttcnntttn 360
ttnccttcct ttntngcacg tttacggct ttcccgtcaa gctctanatc gggggctcct 420
ttagggttcn atttaatgtt tacggacctt tanccaaaaa acttgatatg gttatggtta 480
ntgtnttgng ccattgcctt atttccc                                      507

<210> 640
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<400> 640
aattcggcan agaccaaaat gcagatttnc gtnaaanccc ttacggggga agaccatcac 60
cctcaaggtt aaaccctcgg aatacgatag gaaaatgtaa aggccaagat ccaggataag 120
gaaggnattc ctcctgaatn cagcagagaa ctgaatcttt gcctggncaa gcagctggga 180
```

563

```
aggatgggac gttactttgt gctgaactta caatatttca aaaggggttc ttacttcttn 240
atcttgtgtt gagaatttcg tgggtggtgc ttaggaaagg ggaaggagga agtttttaca 300
accattccca ggaaggntta ggcccagggn aaagganggt ttaagntggt tgtncncgaa 360
atttttagg gngggttgng attgggcaan tnngtnggct ttggttgggg ggttcccctt 420
tttaanngan ttnggggntt ngggngttt tttttgggnn ggnaaatttt tttaaggnct 480
tttttttggg ggaaaa                                                  496
```

```
<210> 641
<211> 186
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c


<400> 641
ggcaaacatg cagatctttg tgaagaccct cactggcaaa accatcaccc ttgaggtcga 60
gcccagtgac accattgaga atgtcaaagc caaaattcaa gacaaggagg gnatcccacc 120
tgaccagcag cgnctgatat ttgccggnaa acagctggaa ggatggncgc aactctntca 180
gactac                                                            186
```

```
<210> 642
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (168)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c
```

```
<400> 642
ggcacgaggc cctctgaaga ggaggccccc aggtctccac tggcaccctc cgaagggctg 60
gctccgatgt atttgatggt gacctgggaa tggggcagcc aagggctgca aagcctcccc 120
acacatgacc ccagccctct acagcggtaa ggtgagggac ccacattncc cctgccctct 180
gagacttngg gggacgttgc ccccctgana tgcagnnngg gcctgaatat gtgaaccagc 240
cagatgttcg gccccagccc ccttcgcccc gaagatgngc tngnctgctg cccgacctnc 300
ttggtgccac tctggnaagn ggccaagaat ctnttcccca gggaagaatt gggtcgtcaa 360
aagnggtttt tgcnttttgg gggttccgtt gagaancccg agtangttta caaccccaag 420
ggaagaanct tcccctnaag ccccaacctt cttccttgct taagccagcc tttgacaacc 480
tctaataatt ggancaagan ccaacaaaac cgggggggtc                       519


<210> 643
<211> 138
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c
```

```
<400> 643
agttccttgc ngcaggcaac ccacttaggt ggccancaat cttgacttcc agatggaaga 60
gtgacatcta tnanaggaaa agtgatggca tntatatcat anntctcaag aggacctggg 120
agaagcttct gctgggca                                                  138
```

```
<210> 644
<211> 602
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (591)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (602)
<223> n equals a,t,g, or c
```

```
<400> 644
gcccacgcgt ccggcgagct gagtggttgt gtggtcgcgt ctcggaaacc ggtagcgctt 60
gcagcatggc tgaccaactg actgaagagc agattgcaga attcaaagaa gcttttcac 120
tatttgacaa agatggtgat ggaactataa caacaaagga attgggaact gtaatgagat 180
ctcttgggca gaatcccaca gaagcagagt tacaggacat gattaatgaa gtagatgctg 240
atggtaatgg cacaattgac ttccctgaat ttctgacaat gatggcaaga aaaatgaaag 300
acacagacag tgaagaagaa attagagaag cattccgtgt gtttgataag gatggcaatg 360
gctatattag tgctgcagaa cttcgccatg tgatgacaaa ccttggaaga gaagttaaca 420
gatgaagaag tttgatgaaa tgatcaggga agcagatatt gatggtgatg gtcaagtaaa 480
ctatgaagag tttgtaccaa atgatgacag caaaagtgaa agacctttn ccagaatggg 540
gttaaatttc ttgnaccaaa antggttaat ttggcctttt ctttggttgg naacttatct 600
gn                                                                  602
```

```
<210> 645
<211> 112
<212> DNA
```

```
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<400> 645
atntgttggg ccggaactgg gctngtttca ccggaaagaa ngtgggganct gcctctgana 60
atgtgtatgt ccacatacca caccttagga attctcacga aaagtnttcc aa          112

<210> 646
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
```

569

```
<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 646
cagcgggcca ctctggatcc tgggcgacgt cttcatcggc cgctactaca ctgtgtttga 60
ccgtgacaac aacagggtgg gcttcgccga ggctgcccgc ctctagttcc caaggcgtcc 120
gcgcgccagc acagaaacag aggagagtcc cagagcagga ggccctggc ccagcggncc 180
ctcccacaca cacccacaca ctcgcccgcc cactgtcctg ggcgccctgg aagccggcgg 240
gccaagccga cttgctgttt tgttctgtgg tttcccctcc ctgggttcaa aaatgctgcc 300
tgctgtctgt ctctccatct tgtttggtgg gttaaactga tccaaaanaa aatttgttcc 360
gtgattggaa aaaccaccca acttggaanc nactcttttt cctgggtcct tctctccagg 420
atccccccg gcctacaagc cgtnggttaa cctacccaac agngcncccg gcnccttgaa 480
ctgcngctaa gcccttccaa ttggccattg gttc                             514

<210> 647
<211> 525
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

<400> 647
ccctactaat ntgngcaaaa gcncngagct ccaccgcggt ggcggccgct ctagaactag 60
tggatccccc ggnttgcagg aattcggcac gagcacgcag cggcccgtgg acatcgtctt 120
cctgctggac ggctccgagc ggctgggtga gcagaacttc cacaaggccc ggcgcttcgt 180
ggagcaggtg gcgcggcggc tgacgctggc ccggagggac gacgaccctc tcaacgcacg 240
cgtggcgctg ctgcagtttg gtggccccgg cgagcagcag gtggccttcc cgctgagcca 300
caacctcacg gccatccacg aggcgctgga gaccacgcaa tacctgaact ccttctcgca 360
cgtgggcgca ggcgtggtgc acgccatcaa tgccatcgtg cgcagcccgc gtggcggggc 420
ccggaggcac gcagagctgc cttcgtggtc ctcacggacg gcgtcacggg caacgacagn 480
ctgacgagtc ggcgcactcc atgcgcaagc agaacgngga cccac         525

<210> 648
<211> 317
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (194)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c


<400> 648
gcncagatgg gcatgctgaa ggggcctctt cttaacaaat ttctgaccac agccaaagat 60
aagaaccgct gggaggacnc tggtaagcag ctctacaacg tggaggccac atcctatncc 120
ctcttngccc tactgcagct aaaagncttt gactttgtnc ctcccgtcgt ncnttngctc 180
aatgnacaga gatnctacgg tggtggntat ggctctaccc aggccacctt catggtgttc 240
caagncttag ctcaatanca gaaggacggc cctgaccacc aggcactgaa ccttgangtg 300
nacctccaaa tgctcng                                                317


<210> 649
<211> 575
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c
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573

```
<220>
<221> misc feature
<222> (509)
<223> n equals a,t,g, or c


<400> 649
gtaggaacac cctcatcatc tacctggaca aggtctcaca ctctgaggat gactgtctag 60
ctttcaaagt tcaccaatac tttaatgtag agcttatcca gcctggagca gtcaaggtct 120
acgcctatta caacctggag gaaagctgta cccggttcta ccatccggaa aaggaggatg 180
gaaagctgaa caagctctgc cgtgatgaac tgtgccgctg tgctgaggag aattgcttca 240
tacaaaagtc ggatgacaag gtcaccctgg aagaacggct ggacaaggcc tgtgagccag 300
gagtggacta tgtgtacaag acccgactgg caaggttcaa gctgtccaat gactttgacc 360
gagtacatca tggccattga gcagaccatc aagtcaggct cggatgaggt gcaggttgga 420
cagcagcgca cgttcatcag ccccatcaag tgcagagaag ccctgaagct tgaggagaag 480
aaacactact tcatgtgggg nctcttctnc caattctggg gagagaagcc caaccttagc 540
tacatcatcg ggaaggacac ttgggtggag cactg                          575

<210> 650
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (269)
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574

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<400> 650
tcgacccacg cgtccggcat tgtctatcat tgcactggag atccaagcac agaagtgtgt 60
agagttaaca gaaggaatag aatgtcttca gacacattcc aagataaatg gcagagattt 120
gaccttctgg caagaacttg tatccaagtg tttaactgaa tattcatcta agcaaagtgg 180
ttccanacca aatgttccag aagtttgaaa atggatttgt tcctggacgt actgcacggc 240
aanctgaagc acaggntact aacgngntna acccanc                         277

<210> 651
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 651
ggcacaggnt ccngggtgga gctggctgag tcgcgcgctc tgctccaccc ggggggggctg 60
tttttttctgg gcctggctcg cggcgnacng agatggnagn gcagtnggac gaggccgtga 120
agtaatacac cctaggagga gattcagaag cacaaccaca gcaagagcac ctggnctgat 180
cctgncacca caaggtgtac gaatttgacc aaatttctgg nagaggcatc cctggtgggg 240
gaggaagttt taaggggaac aagcttggag gtgacgctac ttgaggaant tttgagggnt 300
gttcggggca cttttaccag ntgncccaag ggaaaattgt tcccaaaaac atttnca   357
```

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<210> 652
<211> 190
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<400> 652
ggacgctact tcccctatca tagaagagct tatcaccttt catgatcacg ccctcataat 60
cattttcctt atctgcttcc tagtcctgta tgcccttttc ctaacactca caacaaaact 120
aactaatact aacatctnag acgctnanga aatagaaacc gtctgaacta tnctgcccgn 180
catcatccta                                                       190

<210> 653
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c
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<400> 653
gcttcgaccc cgccggagga ggagacccca ttctatacca acacctattc tgattttcg 60
gtcaccctga agtttatatt cttatcctac caggcttcgg aataatctcc catattgtaa 120
cttactactc cggaaaaaaa gaaccatttg gatacatagg tatggtctga gctatgatat 180
caattggctt cctagggttt atcgtgtgag cacaccatat atttacagta ggaatagacg 240
tagacacacg agcatatttc acctccgcta ccataatcat cgctatcccc accggcgtca 300
aagtatttag ctgactcgcc acactccacg gaagcaatat gaaatgatct gctgcagtgc 360
tctgagccct aggattcatc tttctttttca ccgtaggtgg cctgactggc attgnattag 420
caaactcatc actagacatc gtactacacg acacgtacta ccgttgtagc ccacttccac 480
tatgtcctat caataggagc tggatttgcc atcataggaa ggcttcattc actgatttcc 540
ctattctcag gctacaccct agaccaaacc tacgccaaaa atcatttcac tatcataatn 600
cac   603

<210> 654
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<400> 654
ggtttttttc ttcgcaggat ttttctgagc cttttaccac tccagcctag cccctacccc 60
ccaattagga gggcactggc ccccaacagg catcaccccg ctaaatcccc tagaagtccc 120

```
actcctaaac acatccgtat tactcgcatc aggagtatca atcacctgag ctcaccatag 180
tctaatagaa aacaaccnaa accaaataat tcaagcactg cttattacaa ttttactggg 240
tctctatttt accctcctac aaagcctcan agtacttcga gtctcccttc accatttccg 300
anggcatcta cggctcaaca tttttttgnag cccaggcttn cacgganttt cacgtc     356
```

<210> 655
<211> 682
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<400> 655
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gcgcaagtag gtctacaaga cgctacttcc cctatcatag aagagcttat cacctttcat 60
gatcacgccc tcataatcat tttccttatc tgcttcctag tcctgtatgc ccttttccta 120
acactcacaa caaaactaac taatactaac atctcagacg ctcaggaaat agaaaccgtc 180
tgaactatcc tgcccgccat catcctagtc ctcatcgccc tccatccct acgcatcctt 240
tacataacag acgaggtcaa cgatccctcc cttaccatca aatcaattgg ccaccaatgg 300
tactgaacct acgagtacac cgactacggc ggactaatct tcaactccta catacttccc 360
ccattattcc tagaaccagg cgacctgcga ctccttgacg ttgacaatcg agtagtactc 420
ccgattgaag cccccattcg tataataatt acatcacaag acgtcttgca ctcatgagct 480
gtccccacat taggcttaaa aacagatgca attcccggac gtctaaacca aaccactttc 540
accgctacac gaccgggggt atactacggt caatgctctg aaatctgtgg agcaaaccac 600
agtttcatgc ccatcggcct agaattaatt cccctaaaaa tctttgaaat aagggcccgn 660
atttacccta tagcaccct ct                                           682
```

<210> 656
<211> 520
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature

579

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<222> (483)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 656
gagaagagct tatcaccttt catgatcacg ccctcataat cattttcctt atctgcttcc 60
tagtcctgta tgccctttc ctaacactca caacaaaact aactaatact aacatctcag 120
acgctcagga aatagaaacc gtctgaacta tcctgcccgc catcatccta gtcctcatcg 180
ccctcccatc cctacgcatc ctttacataa cagacgaggt caacgatccc tcccttacca 240
tcaaatcaat tggcaccaat ggtactgaac ctacgagtac accgactacg gcggactaat 300
cttcaactcc tacatacttc ccccattatt cctagaacca ggcgacctgc gactccttga 360
cggtgacaat cgagtagtac tcccgattga agccccattc gtataataat tacatcacaa 420
gacgcttgna ctcaagagct gncccacant aggcttaaaa acaggatgca atttccgggc 480
ggntnaaaca aaacaatttt accggtacac gaacgggggg                      520

<210> 657
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<400> 657
gcactttctg ccaaagaaat ctctcctttt gcttctagca ccgactagat ttccttcagc 60
tgatgattga ctcccagaat tcgaaagaaa ctgagtccca caaagctctg tctgatctgg 120
agctcgcagc ccagtcaata atcttcattt ttgctggcta tgaaaccacc agcagtgttc 180
tttccttcac tttatatgaa ctggccactc accctgatgt ccagcanaaa ctgcaaaagg 240
gagattgatg cagttttgcc caataaggca ccacctacct atgatgccgt ggtacagatg 300
gattaccttg acatggtggt gaatgaaacc tcaaattatn cccgttggta tta          353

<210> 658
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 658
ggcanaggcc accaccatcc tgcattgccc actttacttg gccttctcct ggctctaact 60
caggcagcca agacccctcc cacttccttc tttggcctcc ctctcctcag gtatgaaaat 120
gaagctggcc ctgcgcccag gcgtttgaag gctgacatca acggcttgcg ccgagtcctg 180
ggatgagctg accctggcca ggnctgacct ggagntgcag atcgagggcc tgaatgaggn 240
```

agctagcctt acctgaagtg gnaccacgaa ggagggagat ggaaggagtt tcagcagcca 300
gttggccggn caagttcaat nttggagatg ggncgganca ccgggtgtgg gacctgaccc 360
gn   362

<210> 659
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<400> 659
gcttctncgc tccttctagg atctccgcct ggntcggccc gcctgcntcc actcctgcct 60
ctaccatgtc catcaaggtg acccagaagt cctacaaggn gtccacctct agcccccggg 120
```

```
ccttcagcag ccgctcctac acgaatnggc ccggttcccg catcaacncc tcgancttct 180
cccgaatagg cagcagcaac tntngcagtg gcctgggcgg cggctatngt ggggccagcn 240
gcatggnagg catcaccgca gttacggtca accagagcct gctgancccc cttntcctgg 300
aggtggaccc caacatccag gccgtgcgca cccaggagaa ggagcagatc aanaccctca 360
acaacaagtt tgcctcttca tagacaaggt aggttcctgg agcagcagaa caagatgttg 420
gaaaccaagt agagctcctt gagcnnn                                      447
```

<210> 660
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<400> 660
ggnacgagcn aaggcctgca ccattctcct ccggggggct agcaaagaaa ttctntcgga 60
agtagaacgn gancctccag gntgcnatgc aagtntgtcg caatgttctc ctgggaccct 120
nagctggtgc naggggtgg ggcntccaaa atggctgtgg cccatgcntt ganagaaaaa 180
tccanggcca tggactggtg tgggaacaat ggccatacag ggctgttgnc cagggcccta 240
naggttcatt cctcgtnacc ctggatccan aaactgtggg gggncagcca ccatt     295

<210> 661
<211> 212
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<400> 661
gttggcgtgc tgggcctgga cctctggcag gtcaagtctg gcaccatctt tgacaacttc 60
ctcatcacca acgatgaggc atacgctgag gagtttggca acgagacgtg gggcgtaaca 120
aaggcagcag agaaacaaat gaaggacaaa caggacgagg agcagaggct taaggaggag 180
gaagaagaca agaaacgcaa agaggangan ga                              212

<210> 662
<211> 130
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
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```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<400> 662
aaaatacatt ganatacatn atgaaggcca ctatnatcct ccttctgntt gcacaacttt 60
cctgggctgg accntttcat cagacaggct tattagactc tatgctagaa catgaagctt 120
atnggatcng                                                      130

<210> 663
<211> 232
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c


<400> 663
gnctcatnnn gactgttctg ncccgattgt tgctgctggt gttggtgaat ttgaagctgg 60
tatctccaag aatgggcaga cccgagagca tgcccttctg gcttacacac tgggtgtgaa 120
acaactaatt gtcggtgnna acaaaatgga ttccactgag ccaccctaca gccagaagag 180
atatgaggaa attgntaagg aagtnagcac ttaccnttaa gaaaaaactg gg          232


<210> 664
<211> 296
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c
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588

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 664
agcggagacc cgcaagcgca agggnctgaa agaaggcatc cctgccctgg acaacttcct 60
ggacaaattg taggtggccc ctgcagcgcc tgccgccccg gggactcgca gcacccacag 120
caccacgtcc cgaattctca gacgacacct ggagactgtc ccgacactcc cctgagaggt 180
ttctggggcc cgctgcggtc acgaggggg gcccggttac ccaattcgtc ctatagtgat 240
natttacaat tcactggncg tcgttttaca agtcgtgtnt gagttttttt tntntt   296

<210> 665
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)

589

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<400> 665
gggtcgaccc acgcgtccgg tttgccgcca gaacacaggt gtcgtgaaaa ctacccctaa 60
aagccaaaat gggaaaggaa aagactcata tcaacattgt cgtcattgga cacgtagatt 120
cgggcaagtc caccactact ggccatctga tctataaatg cggtggcatc gacaaaagaa 180
ccattgaaaa atttgagaag gaggctgctg agatgggaaa gggctccttc aagtatgcct 240
gggtcttgga taaactgaaa gctgagcgtg aacgtggtat cnccattgga tatctccttg 300
tggaaatttg agaccagcaa gtactatgtg actnnncatt gnatgccccc aggacacaga 360
gactttatcc agaaac                                                  376

<210> 666
<211> 332
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c
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590

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<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<400> 666
gccggatcct ncaatcttcg ctcctccaat ctccgctcct ccacccagtt caggaacccg 60
cgaccgctcg cagcgctctc ttgaccacta tgagcctcct gtccagccgc gcggcccgtg 120
tccccggtcc ttcgagctcc ttgtgcgcgc tgttggtgct gctgctgctg ctgacgcagc 180
cagggcccat cgccagcgct ggtcctgccg ntgctgtgtt ganagagctg cgttgccgtt 240
tgtttacaga ccacgcaagg agtccatccc aaaaatgatc agtaatntgc aagtgtncgc 300
cataggccca acagtgctcc aangngggaa gn                                332

<210> 667
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
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591

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 667
gtccttcgtg gagctaccgc tggccagcat tgtctcactt catgcctcca gcngcggtgg 60
taggctgcag acctcacccg naccgatcca gancactcct cccaaggaca cttgtagccc 120
gganctgntc atgtccttgn atccanacaa attgtgccga cgacgccatg gaccctggta 180
ctaaaganag agcttgttgc gcatttggaa ttgcaccatg cacgggcctg accttctggg 240
naccccagct gtgtaggcag aggacagggt gacaattttg tctttgcgca tggcntaatg 300
ccatctgtgg tcatgacagg ttgttcatca agtnnggant caggcaatga aggcngtggg 360
t   361

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<210> 668
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (411)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c


<400> 668
ggcacgagct cctcccagcg cttctacaag gagaacctgg gacagggctg gatgacccag 60
aagcatgagc ggatgaaggt ctatgtgccc actggcttct ctgccttccc ttttgagcta 120
ttgcacacgc ctgaaaagtg ggtgaggttc aagtacccaa agctcatctc ctattcctac 180
atggttcgtg ggggccactt tgcggccttt gaggagccgg agctgctcgc ccaggacatc 240
cgcaagttcc tgtcggtgct ggagcggcat gnanccaccc ctctcccccc gcttgccact 300
tccccccaca atgccctcca ggntttcttg ggggaagata accntttctg aggatgantt 360
tgcctccgtc ccntgnccag ttgggancccc agttcaaccc ctnaaccttc nagttaattc 420
ccaaccccaa tcgtgtggta agcaangggt ttgangataa agatttaatc taaaaaaaaa 480
aaaaaaaatc nggggggggc ccgtaacaat tgnccnaa                         518


<210> 669
<211> 545
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c


<220>
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594

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<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<400> 669
gcaagatnga nantaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgncg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga gatagaggag 120
gcttccctcc aagaggaccc cggggttccc gagggaaccc ctctggagga ggaaacgtcc 180
agcaccgagc tggagactgg cagtgtccca atccttcaat tggtgatttc tgctgtgatg 240
taattgtatg caggggttgt ggaaaccaga acttcgcctg gagaacagag tgcaaccagt 300
gtggtgatcg tggcagaggt ggccctggtg gcatgcnggg aggaagaggt ggcctcatgg 360
atcgtggtgg tcccggtgga atgttcagag gtggccgtgg tggagacaga ggtggcttcc 420
gtggtggccg gggcatggac cgaggtggct ttngtggagg aagacgaggt ggccctgggg 480
ggcccctgga cctttgatgg aacagatggg aggaagaaga ggaggacgtg gaggacctgg 540
gaaaa                                                          545

<210> 670
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<400> 670
ggcggactcg gtggctagcc gatgaggagg ccgcgggggg aaccggcccc cgggccccga 60
gaccgactga gggagcgacc tgcgcagggc ccggggagtc atgtaagggt ggcacccctg 120
gctacagtca acatcttgat ntcactgtgc caactgcggt gcctgccctt canagccctg 180
cactttgttt tntcccctgg cttcatcnac tacatcagtg gcacccctca tgctctgatt 240
gtgcgtcgct acctctccct gctggacacg gccgtggagc tgganctccc aagataccgg 300
ggtccccgcc ttccccgaan gcagtaagtg cccatctttc cccaacctct cntcaccgac 360
cgtgcccgct gcaagtacng tcacaa   386

<210> 671
<211> 436
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 671
tggagacaga gcgagggttt gaggagttgc ccctgtgcag ctgccgcatg gaggcaccca 60

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agattgacag catcagcgag agggcggggc acaagtgcat ggccactgag agtgtggacg 120
gagagctgtc aggctgcaat gccgccatcc tcaagcggga gaccatgagg ccatccagcc 180
gtgtggccct gatggtgctc tgtgagaccc accgcgcccg catggtcaaa caccactgct 240
gcccgggctg cggctacttc tgcacggcgg gcaccttcct ggagtgccac cctgacttcc 300
gtgtggccca ccgcttccac aaggcctgtg tgtctcagct gaatgggatg gtcttctgtc 360
cccactgtgg ggaggatact tctgaagctc aagangtgac catccccggg gtgacggggt 420
gacccaacgg ccggca                                                 436
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<210> 672
<211> 504
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (300)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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601

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<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (498)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 672
aattcggcac gagagcatat cnggtgcatc tnngaaagac atcgtgcact ctggntnggc 60
atacacantg gagcnntctg ccaggcaant tatgcgcaca gccatgaagn ataacctggg 120
tttngacctg agaacagctt cctatgntaa tgccattgng aangtcttca aagtgtacan 180
tgaagctggt gtgaccttca catngatgga ncatggctga cttncncact atcctcttca 240
catgtaactt ntgcagacct atcanaagtt tacatgtaac cacagnnntc cctttctctn 300
ctgactnatt aataatggct accattctta acangttaat ccaagtncag cncgtttaag 360
ggngnaaagg antcaaggtt nggcgggttc atntncaagn tgcgtgtggn agtagtaatt 420
ctnctgncan cagtgggncc atttttgggt attttnnctn tnaantanan agggctantt 480
tnatcttgtt gttgcagnct ttnc                                     504
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<210> 673
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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602

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<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<400> 673
aatacccaca ccnaacggga caaaaacctg gaanaccacc gaggtggcgg ccgcncatag 60
aactagtgga accccaggg ctgcaggaat tcgggcacga ggnagagcgg acnngtgagc 120
agtactgcgg cctcctctcc tctcctaacc tcgctctcgc ggcctagctt tacccgcccg 180
cctgctcggc gaccagaaca ccttccacca tgaccacctc agcaagttcc cacttaaata 240
aaggcatcaa gcaggtgtac atgtccctgc ctcagggtga gaaagtccag gccatgtata 300
tctggatcga tggtactgga gaaggactgc gctgcaagac ccggaccctg gacagtgagc 360
ccaagtgtgt ggaagagttg cctgagtgga atttcgatgg ctctagtact tnacagtctg 420
anggttccag t                                                      431

<210> 674
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<400> 674
cgggcgggaa agtcaagata cnngctttnc tancttggtg gagagagtta tccaacaatt 60
ggaaggtgct tttgcacttg ngtttaaaag tgttcatttt cccgggcaag cagntggcac 120
aaggcgaggt agccctctgt tgattggtgt acggagtgaa cataaacttt ctactgatca 180
cattcctata ctctacagaa caggcaaaga caagaaagga agctgcaatc tctctcgngt 240
ggacagcaca acctgccttn tcccggngga agaaaaagca gnggagtatt actttgcttc 300
tgatgcaann gctgcataga acacaccaat cgcgtcatct ttctggaaga tgatgatgtn 360
gcagcaagna                                                         370

<210> 675
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (211)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c


<400> 675
ggcanagaga agagagagag agagagagag agactcgtaa ttcggcagnn cccccangta 60
cagtnccttc aagcctacaa gccccgagag aatgatgant tggcactgga gaaagccgac 120
gtggtgatgg tgactcacca gagcagtgca cggctggctg gagggcgtga ggctctcaga 180
cggggagcga ggctggtttc ctgtgacagc nntgngagtt catttccaac ccagaggtcc 240
gtgacacaga acctgaaggg aagcttcatc gagtgcaaga cttgccaaac tacagctngt 300
gggaacagca agcctnantt ttctnctgna gaaggagttt tcgtgagctg gaagaacaag 360
ttg                                                         363


<210> 676
<211> 441
<212> DNA
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<213> Homo sapiens

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<400> 676
ccgaggacca gcgcaacgag gagaaggcgc acgtgaggcc aacaaaaaga tcgagaagca 60
gctgcagaag gacaagcagg tctaccgggc cacgcaccgc ctgctgctgc tgggtgctgg 120
agaatctggt aaaagcacca ttgtgaagca gatgaggatc ctgcatgtta atgggtttaa 180
tggagacagt gagaaggcaa ccaaagtgca gganatcaaa aacaacctga aagaggcgat 240
tgaaaccatt gtggccgcca tgagcaacct ggtgcccccc gtggagctgg ccaaccccga 300
aaaccagttc agagtggact acatcctgag tgtgatgaac gtgcctgact ttnacttccc 360
tcccgaattc tatgagcatg ccaaggctct gtgggangat gaangagtgc gtncctgcta 420
cgaacgctcc aacgaatacn n 441

<210> 677
<211> 550
<212> DNA
<213> Homo sapiens
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607

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (542)
<223> n equals a,t,g, or c

<400> 677
gcgactcgca gcgccaggcc accaaggatg cgggtgtgat cgcggggctc aacgtgctgc 60
ggatcatcaa cgagcccacg gccgccgcca tcgcctacgg cctggacaga acgggcaagg 120
gggagcgcaa cgtgctcatc tttgacctgg gcgggggcac cttcgacgtg tccatcctga 180
cgatcgacga cggcatcttc gaggtgaagg ccacggncgg ggacacccac ctgggtgggg 240
aggactttga caacaggctg gtgaaccact tcgtggagga gttcaagaga aaacacaaga 300
aggacatcag ccagaacaag cgagccgtga ggcggctgcg caccgctgcg agagggccaa 360
gaggaccctg tcgtccagca cccaggccag cctggagatc gacttccttg ttttgagggc 420
atcgacttnt acacgttcat caccagggcg aaggttcgaa ggagctgtgc ttccgacctt 480
gntnccnaaa cacccctggg aaccccgtgg gaaaaaaggc ttnttgcgcc gaaaggccca 540
ancttgggac   550

<210> 678
<211> 435
<212> DNA

608

<213> Homo sapiens

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

609

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<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<400> 678
tgcaggaaga gctcgtggaa gaggtggtgg ccccagtcaa aactggnaac caggnatata 60
gtaactattg gaatcaaggc tatggcaact atggatataa cagccaaggt tacggtggtt 120
atggaggata tggnctacac tggttacaac aactactatg gatatggtga ttatagcaac 180
cagcagagtg gttatgggaa ggtatccagg cgaggtggtc atcaaaatag ctacaaacca 240
tacttaaatt attccatttg caacttatcc ccaacaggtg gtgaagcata ttttnccatt 300
tgaaggttcc tttgaggggg gctccgcccn ggncttaatt ggcnttccaa ctaaattttt 360
gggtatccag tccccnatgg gagtntgcgg tggggccccc nggagtttaa ttcgggagtcc 420
ccntaaagga tttnn                                                    435

<210> 679
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<400> 679
cggacgcgtg ggctctggcc cctggtcctg tcctgttctc caacatggtg tgtctgaagt 60
tccctggaag ctcctgcatg gcagctctga cagtgacact gatggtgctg aactccccac 120
tggctttggc tggggacacc cgaccacgtt tcttggagca ggtnaaacat gaatgtcatt 180
tcttcaacgg gacggaacgg gtgcggttcc tggacanata cttctatcac caagaagaat 240
acgtgcgctt cgacagcgac gtgggggaat accgggcggt gacgganctg gggcggccta 300
actccgaata ctggaacagc cagaaagacn ccngggacag aagcgggccg cggtggacac 360
ctactgcaga nacactacgg ggttgggtgn                                   390

<210> 680
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
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612

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
<223> n equals a,t,g, or c

<400> 680
anngtcanac ngacagtnac cgtccggatt cccgggtcga cccacgcgtc cgtgaggtta 60
cagattatgc cattgccagg cgcatagtag atttgcattc aagaattgag gaatcaattg 120
nnaatatcta tnccctcgat gatatcagaa gatatctncn ctatgcaaga aagtntaaac 180
ccaagaattc caaagantca gnggacttca ttgtggagca atntaaacat ctccgcccgn 240
aagatgggtt ctggagtagc ccagtcttca tngagggntn cagttgcggc cncattgagg 300
gccttggatc cgtctctctt ggaagccaat ngctccgggt gcc   343

<210> 681
<211> 523
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (22)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c


<400> 681
natcttccgt gacactnttg anggnacgcc cgcaggtacc cggtccggaa ttcccgggtc 60
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gacccacgcg tncgcccaat tttaccaatc tatcaccta tagaagagct aatgttagta 120
taagtaacat gaaaacattc ncctccgcat aagcctgcgt cagattaaaa cactgaactg 180
acaattaaca gcccaatatc tacaatcaac caacaagtca ttattaccct cactgtcaac 240
ccaacacagg catgctcata aggaaaggtt aaaaaaagta aaaggaactc ggcaaatctt 300
accccgcctg tttaccaaaa acatcacctc tagcatcacc agtattagag gcaccgcctg 360
cccagtgaca catgtttaac ggncgcggta ccctaaccgt gcaaaggtag cataatcact 420
tggtccttaa ttagggacct gnatgaatgg ctccacgagg gtcagctggc tcttactttt 480
aaccagngaa attgacctgn cgngaagagg cggnatgaca cag              523
```

<210> 682
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (595)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (605)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (633)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (646)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<400> 682
ggtcaaccca acacaggcat gctcataagg aaaggttaaa aaaagtaaaa ggaactcggc 60
aaatcttacc ccgcctgttt accaaaaaca tcacctctag catcaccagt attagaggca 120
ccgcctgccc agtgacacat gtttaacggc cgcggtaccc taaccgtgca aaggtagcat 180
aatcacttgt tccttaaata gggacctgta tgaatggctc cacgagggtt cagctgtctc 240
ttactttaa ccagtgaaat tgacctgccc gtgaagaggc gggcatgaca cagcaagacg 300
agaagaccct atggagcttt aatttattaa tgcaaacagt acctaacaaa cccacaggtc 360
ctaaactacc aaacctgcat taaaaatttc ggttggggcg acctcggagc agaacccaac 420
ctncgagcag tacatgctaa gacttcacca gtcaaagcga actactatac tcaattgatc 480
caataacttg accaacggaa caagttaccc tagggataac agcgcaatcc tattctagag 540
tccatatcaa caatagggtt tacgaacctc gatgtttgat cangacattc ccatngtgca 600
gcccnctatt taaaaggttc gttggntcac gantaaaggn cctacntgaa ctgagttcan 660
aaccggagta aattccaagg cgggttttta tctaccttaa aattcccccc tgg   713

<210> 683
<211> 289
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

616

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 683
tccccntact aaagngaaca aaagctgnag ctccaccgcg gtggcggccg ctctagaact 60
agtggatccc ccnggctgcn tgaattcggc acgagcggca cgaggccctg cggggtgtac 120
acccccgtt gcggctcggg cctgctctgc tacccgcccc gaggggtgga gaagcccctg 180
cacacactga tgcacgggca aggcgtgtgc atggagctgg cgganatcga ggccatncan 240
gaaagcctgc anccctctga caaggacgag ggtgaccacc ccaacanca   289

<210> 684
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 684
ggangagccc agccctggga ttttcaggtg gtttcatttg gtgaacagga ctgaacagag 60
agaactcacc atggaatttg ggctgagctg gctttttctt gtggctattt taaaaggtgt 120

```
ccagtgtgag gtgcaattgg tggagtctgg gggaggcttg gtacagcctg gggggtccct 180
gagactctcc tgtacagtct ctggattcac ctttcgcaac tatgccatga gttgggtccg 240
ccagggtcca gggaaggggc tggaatgggt ctcagcaatt gacggtagtg gttataacac 300
atactacgag aggtccctgc agggccgctt tagtgtctcc agagacaatt ccnagaacac 360
actatatctg caaatgaaca gcctgggagc cgaggacacg gccatctatt attgtgcgaa 420
gacagaacgt atgggtactg gctggtacgg acgaaatgac tact           464
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<210> 685
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (509)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<400> 685
attgantccn ttananaccn cctttatacg actcactata gggaaagctg gtacgcctgc 60
aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg gaccgtcacc cctggagaga 120
cggcctccat ctcctgcagg tctagtcaga ccctcctgca tgtcaatgga cacaactatt 180
tggattggta catgcagaag ccagggcagc ctccacagct cgtggtctat aggggttcca 240
atcgggcctc cggggtccct gacaggttca gtggcggtgg atcaggcaca gattttacac 300
ttagaatcac cacggtggag gctgangatg ttggcgttta ttactgcatg caagctctac 360
aaagtccgta cacttttggc caggggacca agctggagat caaacgaact gtgggctgca 420
ccatctgnct tcatcttncc gncatctgat gaacanntga aatctggaac tgcctctggt 480
gggggcctgc tgaataactt ctatnccana gaggcccaaa gtaccagtgg aaaggnggga 540
taacg                                                      545

<210> 686
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (358)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

<400> 686
ctactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta gaactagtgg 60
atcccccggg ctgcaggaat tcggcacgag cggctgggcg ctgaggatca gccgcttcct 120
gcctggattc cacagcttcg cgccgtgtac tgtcgcccca tccctgcgcg cccagcctgc 180
caagcagcgt gccccggttg caggcgtcat gcagcgggcg cgacccacgc tctgggccgc 240
tgcgctgact ctgctggtgc tgctccgcgg gccgccggtg gcgcgggctg gcgcgagctc 300
ggggggcttg ggtcccgtgg tgcgctgcga accgtgcgac gcgcgtgcac tggcccantg 360
cgcgccttcc gcccgccgtg tgcgccggaa cttggtgcgc caagccgggc ttgcggntgc 420
tgcctgacgt gcgcactgag cgaagggcca gccgtgcggn atctacaccg ancgctgtgg 480
nttccggnct tcgttg                                                 496

<210> 687
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<400> 687
gcncganacn aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcgnccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagattgat gacaccaata 120
tcacacgact gcagctggag acagagatcg aggctctcaa ggaggagctg ctcttcatga 180
agaagaacca cgaagaggaa gtaaaaggcc tacaagccca gattgccagc tctgggttga 240
ccgtggaggt agatgccccc aaatctcagg acctcgccaa gatcatggca gacatccggg 300
cccaatatga cgagctggct cggaagaacc gagaggagct agacaagtac tggtctcagc 360
agattgagga gagcaccaca gtggtcacca cacagtctgc tgaggttgga gctgctgaga 420
cgacgctcac agagctgaga cgtacagtcc agtccttgga gatcgacctg ggactt   476

<210> 688
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<400> 688
anantaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aggttcccgc ccggaagaag 120
cgaccaaagc gcctgaggac cggcaacatg gtgcggtcgg ggaataaggc agctgttgtg 180
ctgtgtatgg acgtgggctt taccatgagt aactccattc ctggtataga atccccattt 240
gaacaagcaa agaaggtgat aaccatgttt gtacagcgac aggtgtttgc tgagaacaag 300
gatgagattg ctttagtcct gtttggtaca gatggcactg acaatcccct ttctggtggg 360
gatcagtatc agaacatcac agtgcacaga catctgatgc taccagattt tgatttgctg 420
gaggacattg aaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tgggatgcac 480
taa   483

<210> 689
<211> 339
<212> DNA

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<213> Homo sapiens

<220>
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<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (155)
<223> n equals a;t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
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<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<400> 689
aggcaggagg aagccgatcg aaaactcaga gaggaggaag agaagaggag gctaaaggaa 60
gagattgaaa ggcgaggagc agaagctgct gagaaacgcc agaagatgnc agaagatggc 120
ttgtcagatg acagnaaacc attcaagtgt ttcantccta aaaggttcat ctcttcaaga 180
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```
tagaagagcg agcagatttt tgattaagtc tgtgcagaaa agcagtggtg ttcaantcga 240
cccttcaagc agcattagtn ttccaagttt gacagcagan tggagcatnt taccatggca 300
tttgagggga ccaaaagcag ccaaaacctt aaaaaaanna                        339

<210> 690
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<400> 690
gntgctttct ccaccagaag ggcacacttt catctaattt ggggtatcac tgagctgaag 60
acaaagagaa gggggagaaa acctagcaga ccaccatgtg ctatgggaag tgtgcacgat 120
gcatcggaca ttctctggtg gggctcgccc tcctgtgcat cgcggctaat attttgcttt 180
actttcccaa tggggaaaca aagtatgcct ccgaaaacca cctcagccgc ttcgtgtggt 240
tcttttctgg catcgtagga ggtggcctgc tgatgctcct gccagcattt gtcttcattg 300
ggctggaaca ggatgactgc tgtggctgct gtggccatga aaactgtggc aaacgatgtg 360
cgatgctttc ttctgtattg gctgctctca ttggaattgc aggatctggc tactgtgtca 420
ttgtggcagc ccttggctta gcagaaggac cactatgtct tgattccctc ggncagtgga 480
actacacctt tgccagcacc gagggccaag taccttctgg ataccttcac atggtccgag 540
tgcactgaac ccaacacatt ggggaatgga atggatctct ggtttctatc ctct        594

<210> 691
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c


<400> 691
ganganacna accctcacta aagggaacaa aagctggagc tccaccgcgg tgcgnccgct 60
ctagaactag tggatccccc gggctgcagg aattcggcac gagcgcatga ctttgtcttc 120
tccgcacgac tgttacagag gtctccagag ccttctctct cctgtgcaaa atggcaactc 180
ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga 240
tcactgtagt gggtgttgga caagttggta tggcgtgtgc tatcagcatt ctgggaaagt 300
ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga 360
tggatctgca gcatgggagc ttatttcttc agacacctaa aattttggca gataaagatt 420
attctgtgac cgccaattct aagattgtag tggtaactgc aggagtccgt cagcaagaag 480
gggagagtcg gctcaatctg gtgcagagaa atgttaatgt cttcaaattc attattcc    538


<210> 692
<211> 201
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c


<400> 692
gctcattgcc acgcgccccc gacgaccgcc cgacgtgcat tcccgattcc ttttggttcc 60
aagtccaata tggcaactct aaaggatcag ctgatttata atcttctaaa ggaagaacag 120
acccnccaga ataagattac agntgttggg gttggtgctg ntggnatggc ctgtgccatc 180
aanatcttaa tgaaggactt g                                         201
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<210> 693
<211> 589
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c
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625

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<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (576)
<223> n equals a,t,g, or c

<400> 693
nncaaaaagt acctaggtga cantatagaa ggtacgcctg caggtaccgg tccggaattc 60
ccggggttgt taacttgttt attgcagctt ataatggtta caaataaagc aatagcatca 120
caaatttcac aaataaagca ttttttttcac tgcattctag ttgtggtttg tccaaactca 180
tcaatgtatc ttatcatgtc tggatcgatc ctgcattaat gaacggccaa cgcgcgggga 240
gaggcggttt gcgtattggc tggcgtaata ncgaaaagcc cgcaccgatc gcccttccca 300
acagttgcgc ancctgaatg gcgaatggga cgcgccctgt ancggcgcat taacgcggc 360
gggtgtggtg gttaccncaa cgtgaccgct acacttgcca ncgccctaac gcccgctcct 420
ttcnctttct tcccctncct ttctcccccca cgttccgccg ggtttncccc gtcaaactct 480
aaatccgggg ntcccctta agggttccca atttaattgc ttaacggcac ctccaacccc 540
aaaaaaactt naataagggg tgaatggttc nnctanttgg gccacccccc           589
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<210> 694
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 694
ggcaaagcat ggggcagcga gtgtgagaaa tgccctctgc ctggcacaga ggccttcana 60
gagatctgcc ctgccggcca cggctacacc tacgcgagct ccgacatccg cctgtccatg 120
aggaaagccg aggangaaga actggcaang cccccaaggg agcaagggca gangagcagc 180
tgggcactgc ccgggccaac ananaagcag cccctccggg ttcgtcacgg acacctggct 240
tgangccggg accatccctg acaaggttga ctctcaagct ggccaggtca cgaccagtgt 300
cactcatgca cctgcctggg tcacanggaa atgccacaan cccacccaat gcctgaacag 360
ggaattgcnn aaaattccgg aanaaa                                      386

<210> 695
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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628

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<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<400> 695
ggttcacagc atatattggt ggattcttgt ccatagtgca tctgctttaa gaattaacga   60
aagcagtgtc aagacagtaa ggattcaaac catttgccaa aaatgagtct aagtgcattt  120
actctcttcc tggcattgat tggtggtacc agtggccagt actatgatta tgatttttcc  180
ctatcaattt atgggcaatc atcaccaaac tgtgcaccag aatgtaactg ncctgaaagc  240
tacccaagtg ccatgtactg tgatgagctg aaattganaa gtgtaccaat ggtgcctcct  300
ggaatcaagt atctttacct taggaataac cagattgacc atattgatga aaaggccttt  360
gagaatgtaa ctgatctgca gtggctcatt ctagatcaca accttctaga aaactccaag  420
atnaaaggga gagttttctc taaattgaaa caactgaana agntnntata accac        475

<210> 696
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<400> 696
tatcaagtgt actccaaaat ccaggcaaca aacacatggc tgtttctaag tagctgtaac   60
ggaaatgaaa cttctctttg ggactgcaag aactggcaat ggggtggact tacctgtgat  120
cactatgaag aagccaaaat tacctgctca gcccacaggg aacccagact ggttggaggg  180
gacattccct gttctggacg tgttgaagtg aagcatggtg acacgtgggg ctccatctgt  240
gattcagact tctctctgga agctgccagc gttctatgca gggaattaca gtgtggcaca  300
gttgtctcta tcctgggggg agctcacttt ggagagggaa tggacagatc tgggctgaag  360
aattccagtg ttgagggaca tgaatcccca tctttcatct tnccagtagn aaccccgccc  420
aaaaggaact tgtagccaca gcaa                                          444

<210> 697
<211> 411
<212> DNA
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629

<213> Homo sapiens

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<400> 697
aacatggcgg gtgtggagga ggtagcggcc tccgggagcc acctgaatgg cgacctggat 60
ccagacgaca gggaagaagg agctgcctct acggctgagg aaanagccaa gaaaaaaaga 120
cgaaagaaga agaagagcaa agggccttct gcaggtaaag agagtttttat gtttttcccag 180
tcccctccgg gaacggctga actgtttggc tcaggcccgt tgagggggcc gggaccgggg 240
ccccagagcc ccgactagac tgattcttgg gcctgacagg gtggcaaagc cgggctatag 300
atcanggtgc acctgagctt tctctgatgt atgcccangc agatctccag gtattcagag 360
cacctgcttn cccancctgt tagtcttagt nacccaaccc tcctgtgcan a   411

<210> 698
<211> 135
<212> DNA
<213> Homo sapiens

630

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 698
ggcgtgggtt tccgggaggg nacctgnggg gcccagaccc agcgcatccg gtgnagggtg 60
ccctncaact ggaagatgna tttcgagccg atttcaagta caaagtttta gaacttgggg 120
tgcgtgtgat taggg   135

<210> 699
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 699
cgtacangag ctganggnga gcgcgcctgc aggtcgacac tagtggatcc aaagantgtc 60
ngcacagttt tctctcttgg agcatgcatg gaaggcctga atattttgct taacagactg 120
ttggggattt cattatatgc agagcagcct gcaaaaggag aggtgtggag cgaagatgtc 180
cgaaaactgg ctgttgttca tgaatctgaa ggattgttgg ggtacattta ctgtgatttt 240
tttcagcgag cagacaaacc acatcaggat tgccatttca ctatccgtgg aggcagacta 300
aaaggaagat gggagactat ncaactccca gttgtaagtt cttatgctgg aatcttcccc 360
gttcccgnna gggagttctc caactttggc naangcctgg gcatgatggg aaaacctttc 420
ccagganggg ggac                                                   434
```

```
<210> 700
<211> 435
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632

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<400> 700
gccgagcgca cgccttgccg ccgccccgca gaaatgcttc ggttacccac agtctttcgc 60
cagatgagac cggtgtccag ggtactggct cctcatctca ctcgggctta tgccaaanat 120
gtaaaatttg gtgcagatgc ccgagcctta atgcttcaag gtgtagacct tttagccgat 180
gctgtggccg ttacaatggg gccaaaggga agaacagtga ttattgagca gagttgggga 240
agtcccaaag taacaaaaga tggtgtgact gttgcaaagt caattgactt aaaagataaa 300
tacaagaaca ttggagctaa acttgttcaa gatgttgcca ataacacaaa tgaagaagct 360
ggggatggca ctaccactgc tactgtactg gcacgctcta tagccaagga aggcttcgag 420
aagattagca aaggt                                                   435

<210> 701
<211> 406
<212> DNA
<213> Homo sapiens

<400> 701
aaaatttggt gcagatgccc gagccttaat gcttcaaggt gtagaccttt tagccgatgc 60
tgtggccgtt acaatggggc caaagggaag aacagtgatt attgagcaga gttggggaag 120
tcccaaagta acaaaagatg gtgtgactgt tgcaaagtca attgacttaa aagataaata 180
caagaacatt ggagctaaac ttgttcaaga tgttgccaat aacacaaatg aagaagctgg 240
ggatggcact accactgcta ctgtactggc acgctctata gccaggaag gcttcgagaa 300
gattagcaaa ggtgctaatc cagtggaaat caggagaggt gtgatgttag ctgttgatgc 360
tgtaattgct gaacttaaaa agcagtctaa acctgtgacc acccct          406

<210> 702
<211> 266
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c
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633

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<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 702
tgtgagttca agcgggtgcc gcagtgcccc agcgggaggg tctacgtgct gaagttcaag 60
gcagggtcca agcggctttt cttctggatg caggaaccca agacagacca ggatgaggag 120
cattgccgga aagtcaacga gttatctgga acaacccccc gatgcctggg gcactggggg 180
ccagcggaac agcggccacg aantctctgc gctangcggt tgaggtggcn tgcagagcnt 240
gctggggaaa cntgagccac agccag                                     266

<210> 703
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
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<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
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<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<400> 703
tacctacgcc taatctactc cacctcaatc acactactcc ccatatctaa caacgtaaaa 60
ataaaatgac agtttgaaca tacaaaaccc accccattcc tccccacact catcgccctt 120
```

```
accacgctac tcctacctat ctcccctttt atactaataa tcttataaaa aaaaaaaaaa 180
aaaaaaaaaa aaangggggg gccgggnncc natttngccc aaagggggggg ggttttaaaa 240
ttca                    .                                          244
```

<210> 704
<211> 462
<212> DNA
<213> Homo sapiens

<220>
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<222> (7)
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<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
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<222> (162)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
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<222> (183)
<223> n equals a,t,g, or c

<220>
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<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
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<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
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<222> (321)
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<220>
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<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
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<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
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<222> (406)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 704
gtaagancta agtgaccctc ggctgctgca ggggatctgc agcgnactgc agccatgggg 60
gcccacctgg tccggcgcta cctgggcgat gcctcggtgg ancccgaccc cctgcagatg 120
ccaaccttcc cgccagacta cggcttcccc gaacgcaagg ancgcganat ggtggccaca 180
```

637

```
cancangana  tgatggacgc  gcactnaagc  tccanctgcg  ggantactgc  gcccaccaac 240
tcatccgggt  gctcaattnc  aaccttaaan  cttcccccac  ttccttggct  tgcnaaccag 300
gaacgggaca  aatnggaata  ntnccaaaca  ccccanaant  tttnttnccc  ttaaanantt 360
tttaaacgga  aacgaagggt  ntccccccg   gaaaaaaac   ngggnaaaa   aaaggggaaa 420
ttttttnccc  ccccccgcc   cgnggaaatt  ttccccccg   tt                     462
```

```
<210> 705
<211> 436
<212> DNA
<213> Homo sapiens
```

```
<400> 705
gaaggtcagc  gccgtaatgg  cgttcttggc  gtcgggaccc  tacctgaccc  atcagcaaaa 60
ggtgttgcgg  ctttataagc  gggcgctacg  ccacctcgag  tcgtggtgcg  tccagagaga 120
caaataccga  tactttgctt  gtttgatgag  agcccggttt  gaagaacata  agaatgaaaa 180
ggatatggcg  aaggccaccc  agctgctgaa  ggaggccgag  gaagaattct  ggtaccgtca 240
gcatccacag  ccatacatct  tccctgactc  tcctgggggc  acctcctatg  agagatacga 300
ttgctacaag  gtcccagaat  ggtgcttaga  tgactggcat  ccttctgaga  aggcaatgta 360
tcctgattac  tttgccaaga  gagaacagtg  gaagaaactg  cgggagggaa  agctgggaac 420
gagaggttaa  gcagct                                                     436
```

```
<210> 706
<211> 487
<212> DNA
<213> Homo sapiens
```

```
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<221> misc feature
<222> (26)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c
```

```
<220>
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<222> (63)
<223> n equals a,t,g, or c
```

```
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<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

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<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
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<222> (127)
<223> n equals a,t,g, or c

<220>
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<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
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<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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640

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<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c

<400> 706
gccagaagaa cactgctgct cttggnggac gggnccagag gaatncagag ntaaaccttg 60
agngcctgcg tncgtgagaa ttcagcatgg aatgactcta ctatttnctg ggatttctgn 120
tnctggntgn aagattgcca cttgatgccg ccaaacgatt ncatgatgag ctgggnaatg 180
aaagaccttn tgcttacatg anggagcaca atcaattaaa tggctggtnt tctgatgaaa 240
atgactggaa tgaaaaactc tacccagtgt ggaagcggng agacatgang tgngaaaaac 300
tgctggaagg gaggcccgtg tgcaaggcgg tcctgaccag ngactnacca acccttggng 360
ggctcaaata naacattngc cggngaacct gatattccct aaangccaaa aggaagaagc 420
caatggcaac ataggctatg anaagaactg ganaaatgaa gctgggntaa acagctgaac 480
canaagg                                                       487
```

```
<210> 707
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 707
ggttgttctc tggagcagcg ttcttttatc tccgtccgcc ttctctccta cctaagtgcg 60
tgccgccacc cgatggaaga ttcgatggac atggacatga gccccctgag gccccagaac 120
tatcttttcg gttgtgaact aaaggccgac aaagattatc actttaaggt ggataatnat 180
gaaaatgagc accagttatc tttaagaacg gtcngtttng gggctggtgc aaaggatgag 240
ttgcacattg ttgaagcaga ggcaatgaat tacgaaggca gtccaattaa agtaacactg 300
gcaactttga aaatgtctgt acagccaacg gttttcccct tggggcttt gaataacacc 360
accanggncc ttaaggttga antgtggttc agggccatgc cnattagngg acag   414

<210> 708
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 708
gaaaagccat ctttgcattg ttcctcatcc gcctccttgc tcgccgcagc cgcctccgcc 60
gcgcgcctcc tccgccgccg cggactccgg cagctttatc gccagagtcc ctgaactctc 120
gctttctttt taatcccctg catcggatca ccggcgtgcc ccaccatgtc agacgcagcc 180
gtagacacca gctccgaaat caccaccaag gacttaaagg agaagaagga agttgtggaa 240
gaggcagaaa tggaagagac gccctgctaa cgggatgcta atgaggnaat ggggagcagg 300
aggtgacatg aggtagccga gaagaggaag aagtngggag aanagagaga anaanaagtt 360

<210> 709
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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```
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<400> 709
aaagctatnt cggtganact atataaggtn cgcctgcagg taccggtccg gaattcccgg 60
gtcgacccac gngtccgctn cggtggtgaa caagtctcca gcaccatatn tggtttgtct 120
ggcccaccat cccggcgngg accttttccg ttagcgtggg tgatattgtt cctgctcgag 180
gcncaaatng gtccttggna tctccttcca tctgcccatt aactctcgca agtgcctccg 240
ngaggaaatt cnc                                                   253

<210> 710
<211> 496
<212> DNA
<213> Homo sapiens

<220>
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<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c.

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c·

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)
```

646

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c

<400> 710
gaattcggca nagnaagagc tcctgacaca acctggagac tggacattat ttgtgccaac 60
caatgatgct tttaagggaa tgactagtga agaaaaagaa attctgatac gggacaaaaa 120
tgctcttcaa aacatcattc tttatcacct acaccaggag ttttcattgg aaaaggattt 180
gaacctggtg ttactaacat ttttaaagac cacacaaggn agcaaaatct ttctggaagg 240
aagtgaaatg gttacacttc tggtgaatgg atttggaaat ccaaaagant ctgacatcca 300
tggnccacca anggtggtaa tttcatgttg taggttaaac tncncttttc cagcagncac 360
accttttggg natggntcaa ctggtnggga tacttgatta tttnatncaa tnncctcccn 420
atttaaggtt ttttccgggg tgggcccctt caagggaatn ccngggctnt tttttnacac 480
ctnaattttt tccccc                                                496

<210> 711
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<400> 711
ntncaatgga anctccctgg agctttcacc gcggtgnccg gccgctctag aactagtgga 60
ttncccgggc tgcaggaatt cggcacgagg tcgcagacac tatgctgcct cccatggccc 120
tgcccagtgt atcttggatg ctgctttcct gcctcatgct gctgtctcag gttcaaggtg 180
aagaacccca gagggaactg ccctctgcac ggatccgctg ncccaaaggc tccaaggcct 240
atggctccca ctgctatgcc ttgttttttgt caccaaaatc ctggacagat gcagatctgg 300
cctgccagaa gcggccctct ggaaacctgg tgtctgngct cagtggggct gagggatcct 360
tcgngcctcc ctggtgaaga gcattggtaa cagctactca tacgtctgga ttgggctcca 420
tgaccccaca cagggcaccg agcccaatgg ataaaggttg g              461

<210> 712
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c
```

648

```
<400> 712
cgcaaccttt ccaagggagt ggttgtgtga tcgccatctt agggaaaaga tgttctcgtc 60
cgtggcgcac ctggcgcggg cgaacccctt caacacgcca catctgcagc tggtgcacga 120
tggtctcggg gacctccgca gcagctcccc agggcccacg ggccagcccc gccgccctcg 180
caacctggca gccgccgccg tggaagagca gtatagctgt gactatggat ctggcagatt 240
ctttatcctt tgtggacttg gaggaattat tagctgtggc acaacacata cagcattggt 300
tcctctagat ctggttaaat gcagangcag gtttgttttt gcatgctgga cttagagcna 360
ttgaagcntg actgangtta agtattagna ta                              392
```

```
<210> 713
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (601)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (642)
<223> n equals a,t,g, or c

<220>
```

```
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (690)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (703)
<223> n equals a,t,g, or c

<400> 713
gagaaaaagg tggaacggca gacggaactt aagcgcaaat ttgaacagat gaaacaagat 60
aggatcacca gataccaggg tgttaatctt tatgtgaaaa atcttgatga tggtattgat 120
gatgaacgtc tccggaaaga gttttctcca tttggtacaa tcactagtgc aaaggttatg 180
atggagggtg gtcgcagcaa agggtttggt tttgtatgtt tctcctcccc agaanaagcc 240
actaaagcag ttacanaaat gaacggtaga attgtggcca caaagccatt gtatgtagct 300
ttagctcagc gcaaagaaga gcgccaggct cacctcacta accagtatat gcagagaatg 360
gcaagtgtac ganctgttcc caaccctgta atcaacccct accagccagc acctccttca 420
ggttacttca tggcagctat cccacagact cagaacgtgc tgcatactat cctcctagcc 480
aaattgctca actaanacca agtcctcgct ggactgctca gggtgccata actcatccat 540
tccaaaatat gcccggtgct atccgcccag ctgctcctan aacaccattt agtactatga 600
naacagcttc ttctcagcaa catcttaatg cacagccaca anttacaatg cacancctgc 660
tgttcatgtt caaggtcagg aacctttgan tgcttccatg ttngcatctg cccccccccca 720
aaacaaaacc aatt                                                  734
```

```
<210> 714
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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650

```
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
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<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
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<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<400> 714
tantnnntta accctcacta anggcnacaa agnctngngc tncaccgcgg tggcggccgc 60
tctagcaact agtggatccc ccgggcctgt caggaattcg gcacgagctg ggacaagcga 120
gtttttaaac aaagtgactg aggcacagga agatggccag tcaacttctg aattgattgg 180
ccagtttggt gtcggtttct attccgcctt ccttgtagca gataaggtta ttgtcacttc 240
aaaacacaac aacgataccc agcacatctg ggagtctgac tccaatgaat tttctgtaat 300
tgctgaccca agaggaaaca ctctaggacg gggaacgaca attacccttg tcttaaaaga 360
agaagcatct gattaccttg aattggatac aattaaaaat ctcgtcaaaa aatattcaca 420
```

```
gttcataaac tttcctattt atgtatggng cagcaagact gaaactgttn aggagcccat 480
ggaggaagaa ggagcagcca                                              500
```

<210> 715
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<400> 715
gnanaaatgt ggtggaggct cagtttgata gccgggttcg tgcaacagga cacagttntg 60
anaantacaa caagtgggaa acgatagagg cttggactca acaagtcgcc actganaatc 120
cagccctcat ctctcgcagt gttatcggaa ccacatttga gggacgcgct atttacctcc 180
tgaaggttgg caaagctgga caaaataagc ctgccatttt catggactgt gggtttccca 240
tgccaganan ttggatttct ccctgcattc ngccagtngg ttttntaaaa aangcggttc 300
ccttcctatn gacntttana ncccanttga caaacttcnc caacaattta aanttttatn 360
ttcccgccct gtggccccaa tattgaaggg caacttcnac cccgggaacn aaaacccaat 420
tntggaaaaa aaaacccccc ccccccctgg tgggattctt gctttggttg ggnnccaccc 480
caaaaaaatt t                                                    491

<210> 716
<211> 331
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c
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654

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (326)
<223> n equals a,t,g, or c

<400> 716
gtaaagccgg ggcagcagcc ggcggtccgg gtgtaagcgg cgtgtgcgtg tgcaagagcc 60
gctacccggt gtgcggcagc gacggcacca cctacccgag cggctgccag ctgcgcgccg 120
ccagccagag ggccgagagc cgcggggaga aggccatcac ccaggtcagc aagggcacct 180
gcgagcaagg tccttccata gtgacgcccc ccaaggacat ctggaatgtc actggtgccc 240
angtgtactt gagctgtgag gtcatcggaa tcccgacacc tgtcctcatc tggaacaagg 300
tanaaagggg tcactatgga nntcanagga c   331

<210> 717
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<400> 717
tatcnttact aagggtacaa agttngggtc tnccaccngg tngaggaccg ctcctagcaa 60
ctagtggntc ccccgggnct gcaggaattc ggcacgagna tattagncag cggttattcg 120
gtgagcggtg gtggtttatt cttccgtgga gttaagggct ccgtggacat ctcaggtctt 180
cagggtcttc catctggaac tatataaagt tcagaaaaca tgtctcgaga tatgactcca 240
ggaccactat attttctcca gaaggtcgct tataccaagt tgaatatgcc atggaagcta 300
ttggacatgc aggcacctgt ttgggaattt tagcaaatga tggtgttttg cttgcagcag 360
agagacgcaa catccacaag cttcttgatg aagtcttttt ttctgaaaaa atttataaac 420
tcaatgagga catggcttgc agtgtggcag gcataacttt ctgatgctaa tgttctgact 480
aatgac                                                           486

<210> 718
<211> 479
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 718
tcgacccacg cgtccgcagc ccacccatcc acgttgactc atcctcagag acgaatcgac 60
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accctcaact cagatggata caccctgag ccagacaaac cgcggccgat gcccatggac 120
acgagcgtgt atgagagccc ctacagcgac ccagaggagc tcaaggacaa gaagctcttc 180
ctgaagcgcg ataacctcct catagctgac attgaacttg gctgcggcaa ctttggctca 240
gtgcgccagg gcgtgtaccg catgcgcaag aagcagatcg acgtggccat caaggtgctg 300
aagcagggca cggagaaggc agacacggaa gagatgatgc gcgaggcgca gatcatgcac 360
cagctggaca accccctacat cgtgcggctc attggcgtct gccaggccga agccctcatg 420
ctggtcatgg agatgntggg ggcgggcgct gcacaagttc ctggtcggca agaaggaag 479
```

<210> 719
<211> 572
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<400> 719
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gcgtgcccat gagaatgaga tcaccaaagt gcgaaaagtt actttcaatg gactgaacca 60
gatgattgtc atagaactgg caccaatcc gctgaagagc tcaggaattg aaaatggggc 120
```

```
tttccaggga atgaagaagc tctcctacat ccgcattgct gataccaata tcaccagcat 180
tcctcaaggt cttcctcctt cccttacgga attacatctt gatggcaaca aaatcagcag 240
agttgatgca gctagcctga aaggactgaa taatttggct aagttgggat tgagtttcaa 300
cagcatctct gctgttgaca atggctctct ggccaacacg cctcatctga gggagcttca 360
cttggacaac aacaagctta ccagagtacc tggtgggctg cagagcataa agtacatnca 420
nggtggctac cttcataaca accatatctc tgtagttgga tcaaagtgac ttctggccac 480
ctggacacaa ccacccaaaa ngnttcttaa ttccgggtgg gaagcntttt aacaaacccg 540
ggccangact ggggagaana cagccatcca cc                                572
```

```
<210> 720
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (447)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 720
ggntaaatca gaactcgaat ggccttgttt tcttgctctg gggctcttat gctcagaaga 60
```

```
agggcagtgc cattgatagg aagcggcacc atgtactaca gacggctcat ccctcccctt 120
tgtcagtgta tagagggttc tttggatgta gacacttttc aaagaccaat gagctgctgc 180
agaagtctgg caagaagccc attgactgga aggagctgtg atcatcagct gaggggtggc 240
ctttgagaag ctgctgttaa cgtatttgcc agttacgaag ttccactgaa aattttccta 300
ttaattctta agtactctgc ataaggggga aaagcttcca gaaagcagcc atgaaccagg 360
ctgtccagga atggancctg tatccaacca caaacaacaa aggctaccct ttgacccaaa 420
tgtctttctc tgcaacatgg cttcggncta aaatatgcnn aagacannat gagggccaat 480
acttaat                                                          487
```

<210> 721
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature

659

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<222> (443)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c


<400> 721
cggacgcgtg ggcgtctgct ggggcacctg aaggagactt gggggcaccc gcgtcgtgcc 60
tcctgggttg tgaggagtcg ccgctgccgc cactgcctgt gcttcatgag gaagatgctc 120
gccgccgtct cccgcgtgct gtctggcgct tctcagaagc cggcaagcag agtgctggta 180
gcatcccgta attttgcaaa tgatgctaca tttgaaatta anaaatgtga ccttcaccgg 240
ctggaagaag ccctcctgtc acaacagtgc tcaccaaggg aagatgggct caaatactac 300
aggatgatgc anactgtacc cgaatggaat tgaaacagat cactgtntna acagaaaatt 360
atcntggttt ctgtccttgt gtgatgtcag aacttgctgt gtggcctgga gccgnatcac 420
cccaaacact ctccanctac ggntccgntt atttnccggg cttc                  464


<210> 722
<211> 320
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (152)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<400> 722
gttgcacagc anctgcacgc gccgtggctc cggatctctt cgnctttgca gcgtagcccg 60
agtcggtcag cgccggatga cctcagcagc catgtcgaag ccccatagtg aanccgggac 120
tgccttcatt cagacccagc anctgcacgc anncatggct gacacattcc tggagcacat 180
gngccgcctg gacattgatt caccacccat nacaggccgg aacactggca tcatctgtac 240
cattggccca gcttcccgat cangtggaga cggtnaagga natgattaaa gcctggaang 300
aatgtggntc gtctgaactt   320

<210> 723

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<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 723
gcccaccatg gctgcaatcc gaaagaagct ggtgatcgtt ggggatggtg cctgtgggaa 60
gacctgcctc ctcatcgtnt tcagcangga tcagtttccg gaggtctacg nccctactgt 120
cctttgngaa ctatattgcg cacattgngg cg                             152

<210> 724
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (553)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<400> 724
gctgctatgt tcaatataag aaatattgga aagacgctcg tcaccaggac ccaaggaacc 60
aaaattgcat ctgatggtct caagggtcgt gtgtttgaag tgagtcttgc tgatttgcag 120
aatgatgaag ttgcatttag aaaattcaag ctgattactg aagatgttca gggtaaaaac 180
tgcctgacta acttccatgg catggatctt acccgtgaca aaatgtgttc catggtcaaa 240
aaatggcaga caatgattga agctcacgtt gatgtcaaga ctaccgatgg ttacttgctt 300
cgtctgttct gtgttggttt tactaaaaaa cgcaacaatc agatacggaa gacctcttat 360
gctcagcacc aacaggtccg ccaaatccgg aagaagatga tggaaatcat gacccgagag 420
gtgcagacaa atgacttgaa agaagtggtc aataaattga ttncagacgc attggaaaag 480
acatagaaaa ggcttggcaa tctattatcc tctncatgat ggcttcgtta gaaaagtaaa 540
aatgctgaag aanccaagnt tgaatgggna aac                             573
```

```
<210> 725
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 725
gcttgaaant aaccctcact aaagggaaca aaagctggag ctccaccgcg gtgcggccgc 60
tctagaacta gtggatcccc cgggctgcag gaattcggca cgagtcctgg tccgcgccag 120
agcccagcgc gcctcgtcgc catgcctcgg aaaattgagg aaatcaagga cttcctgctc 180
acagcccgac gaaaggatgc caaatctgtc aagatcaaga aaaataagga caacgtgaag 240
tttaaagttc gatgcagcag atacctttac accctggtca tcactgacaa agagaaggca 300
gagaaactga agcagtccct gccccccggt ttggcagtga aggaactgaa atgaaccaga 360
cacactgatt ggaactgtat tatattaaaa tactaaaaat cct                 403
```

```
<210> 726
<211> 502
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
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663

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 726
cgcaagnncg anactaaccc tcactaaagg gaacaaaagc tggagctcca ccgcggtgcg 60
gccgctctag aactagtgga tcccccgggc tgcaggaatt cggcacgaga gccatcaggt 120
aagccaagat gggtgcatac aagtacatcc aggagctatg gagaaagaag cagtctgatg 180
tcatgcgctt tcttctgagg gtccgctgct ggcagtaccg ccagctctct gctctccaca 240
gggctccccg ccccanccgg cctgataaag cgcgccgact nggctacaag gccaagcaag 300
gttacgttat atataggatt cgtgttcgac gtggtggccg aaaacgccca gttcctaagg 360
gtgcaattac ggcaagcctn tccatcatgg ngttaaccag ctaaagtttg ctcgaagcct 420

```
tcagtccntt gcagaggagc gagctggacg ccactntggg gctctgagag tcctgaattc 480
ttactgggtt ggtgaagatt cc                                          502
```

```
<210> 727
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<400> 727
ggcacgagcg aacgcgnaga gcacgccatg aaggcctcgg gcacgctacg agagtacaag 60
gtagtgggtc gctgcctgcc cacccccaaa tgccacacgc cgccctcta ccgcatgcga 120
atctttgcgc ctaatcatgt cgtcgccaag tcccgcttct ggtactttgt atctcagtta 180
aagaagatga agaagtcttc aggggagatt gtctactgtg ggcaggtgtt tgagaagtcc 240
cccctgcggg tgaagaactt cgggatctgg ctgcgctatg actcccggag cggcacccac 300
aacatgtanc gggaatancg ggacctgacc aacgcaggcg ctgtcaacca gtgtaacggn 360
g                                                                361
```

```
<210> 728
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c
```

665

```
<220>
<221> misc feature
<222> (234)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<400> 728
gaagangctc gcctctagtg tcctccgctg tggcaagaag aagtctggtt agaccccaat 60
gagaccaatg aaatcgccaa tgccaactcc cgtcagcaga tccggaagct catcaaagat 120
gggctgatca tccgcaagcc tgtgacggtc cattcccggg ctcgatgccg gaaaaacacc 180
ttggcccgcc ggaaaggcan gcacatgggc atagttagcg gaaaggtaca gccnatgccc 240
gaatgccaaa naaggtcaca tggattaaga aaatgaagat tttgcgcccg ctgctcaaaa 300
aatacgtgaa tcttaaaana tcgatcgcca cntntttcac agcctgttcc taaagttaan 360
ggaatttttt caaaaacaac cgattctcnt ggaacacttc c                      401

<210> 729
<211> 530
<212> DNA
<213> Homo sapiens

<220>
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<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<400> 729
gcacagngan ancnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgcgn 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcc gccatcttcc 120
agtaattcgc caaaatgacg aacacaaagg gaaagaggag aggcacccga tatatgttct 180
ctaggccttt tagaaaacat ggagttgttc ctttggccac atatatgcga atctataaga 240
aaggtgatat tgtagacatc aagggaatgg gtactgttca aaaaggaatg ccccacaagt 300
gttaccatgg caaaactgga agagtctaca atgttaccca gcatgctgtt ggcattgttg 360
taaacaaaca agttaagggc aagattcttg ccaagagaat taatgtgcgt attgagcaca 420
ttaagcactc taagagccga gatagcttcc tgaaacgtgt gaaggaaaat gatcagaaaa 480
agaaagaagc caaagagaaa ggtacctggg ttcaactaaa gcgccancct           530

<210> 730
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
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```
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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668

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<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
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669

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<400> 730
gggtggttgc tgccgaaatg ggcaagttca tgnaaccaag aaagtggtgc ttgtnctggc 60
tggacgctac tccggacgca aagctgntca tcgtaanaga acattgaatg ntggcacctc 120
naanngcccc tacagccatg cnctggtggc tgggaattga accgctaccc ccgcaaatga 180
ncngctgccn tggggcanga agaagntcgc caggaggtca aagatatant cttttgtgaa 240
ngtgtgtnac tacaatcacc tnatgcccnc aaggtactct gtgngatatt cccttgggg 300
caaagctgta cgttcattag gntgtcttcc ganattcctg gctcttaaac gctnggcccg 360
aaggagnccc aggtc                                                  375

<210> 731
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c
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```
<400> 731
gcgccgctgc gaagggagcc gccgccatgt ctgcgcatct gcaatggatg gtcgtgcgga 60
actgctccag tttcctgatc aagaggaata agcagaccta cagcactgag cccaataact 120
tgaaggcccg caattccttc cgntacaacg gactgattca ccgcaagact gtgggcntgg 180
agccggnagc cgacggcaaa ngtgtcn                                    207

<210> 732
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (620)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (628)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (690)
<223> n equals a,t,g, or c

<400> 732
ggcagaatgn ctcccgcaaa gaagggtggc gagaagaaaa agggccgttc tgccatcaac 60
gaagtggtaa cccgagaata caccatcaac attcacaagc gcatccatgg agtgggcttc 120
aagaagcgtg cacctcgggc actcaaagag attcggaaat ttgccatgaa ggagatggga 180
actccagatg tgcgcattga caccaggctc aacaaagctg tctgggccaa aggaataagg 240
aatgtgccat accgaatccg tgtgcggctg tccagaaaac gtaatgagga tgaagattca 300
ccaaataagc tatatacttt ggttacctat gtacctgtta ccactttcaa aaatctacag 360
acagtcaatg tggatgagaa ctaatcgctg atcgtcagat caaataaagt tataaaattg 420
caaaaaaaaa aaaaagggc ggccgctcta gaggatccaa gcttacgtac gcgtgcatgc 480
gacgtcatag ctcttctata gtgtcaccta aattcaattc actgccgtcg gtttacaacg 540
```

```
tcgtgactgg gaaaaccctg cgttacccaa cttaatcgcc ttgcagcaca tcccctttcg 600
ccagctgcgt aataacgaan aggcccgnac cgatcgcctt tccacagttg cgcancctga 660
atggcgaatg gacgcgcctt taccgngcan taagcgccgc gg              702
```

<210> 733
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<220>
<221> misc feature

672

```
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<400> 733
naattaaccc tcactaaagg gngcaaaagc tggtgctcca ccgcggtgcg accgctctag 60
anctagtggt tcccccgggc tgcaggattt cggcacganc ncgtgcagat tcgagcanag 120
gagcgnaagg gaacgtcatc gtttggaaag cntcgcaata agacgcacac gttgtgccgc 180
cgctntggct ctaaggccta ccaccttcag angtcgacct gtggcaaatt tggctaccct 240
gccaagcgca agagaaagtn taactggagt gccaaggcta aaagacgaaa taccaccgga 300
actggtcgan tgaggcacct aaaatttgta taccgcagat tcaggcatgg tttccntgaa 360
ggaacaacac ctaaacccaa gagggcagct gttgcagcat ccagttcatc ttaagattgt 420
caacgattag tcatgcaata a                                          441

<210> 734
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
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673

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<400> 734
ggccgcagaa gcgagatgac gaagggaacg tcatcgtttg gnaagcgtcg caataagacg 60
cacacgttgt gccgccgctg tggctctaag gcctaccacc ttcagaagtc gacctgtggc 120
aaatgtggct accctgccaa gcgcaagaga aagtataact ggagtgccaa ggctaaaaga 180
cgaaatacca ccggaactgg tcgaatgagg cacctaaaaa ttgtataccg cagattcagg 240
catggattcc gtgaaggaac aacacctaaa cccaagaggg cagctgttgc agcattccag 300
ttcatcttta agaatgtcaa cgnnttttagt catgcaataa antgtnctgg ggttttaaaa 360
aattaaaaga aaagnaaaa   379

<210> 735
<211> 187
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c


<400> 735
gcgggatcgt cggtaaatac gggacccgct atggggcctc cctccggaaa atggtgaaga 60
aaattgaaat cagccagcac gccaagtaca cttgctcttt ctgtggcaaa accaagatga 120
agagacgagc tgtgggggatc tggcactgtg gttcctgcat gaagacagtg gntggnngng 180
cctgnac                                                      187


<210> 736
<211> 576
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<400> 736
```

676

```
tcgacccacg cgtccgccca cgctccggcc tcagccctac cagcactggt catgtctaaa 60
ggtcatcgta ttgaggaagt tcctgaactt cttntggtag ttgaagataa agttgaaggc 120
tacaagaaga ccaaggaagc tgttttgctc cttaagaaac ttaaagcctg ggaatgatat 180
caaaaaggtc tatgcctctc agcgaatgag agctgggcaa aggcaaaatg gagaaaccgt 240
cgccgtatcc agcgcagggc ccgtgcatca tctataatga ggataatggt atcatcaagg 300
ccttccagaa acatccctgg aattactctg cttnaatgtn aagcaagctg aaacattttg 360
naagcttgct ncctggtggg gcatgtgggg acgtttncgg cattgggang gaaatggctt 420
ttccgggant ttaganggan tgtnacgggc antgggcgta aagcgntttc cctccaagng 480
ttaactacan tcttcccagg caccaagatg gattaatana gatcttggca gaatctggaa 540
aagcccagag gtnccaaggg cccttcgggc accagc                           576
```

<210> 737
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<400> 737
```
gctccgncat ggcgtgtgct cgcccactga tatcggtgta ctccgaaaag ggggagtcat 60
ctggcaaaaa tgtcactttg cctgctgtat tcaaggctcc tattcgacca gatattgtga 120
actttgttca caccaacttg cgcaaaaaca acagacagcc ctatgctgtc agtgaattag 180
caggtcatca gactagtgct gagtcttggg gtactggcag agctgtggct cgaattccca 240
```

ganttcgagg tggngggact naccgntctg gccanggtgc ttttggaaac atgtgtc   297

<210> 738
<211> 354
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

678

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 738
gcgagaatga agactattct cagcantcag actgtcgaca ttccagaaaa tgtcgacatt 60
actctgaagg gacncacagn tatngtgaag ggccccanag gaaccctgcg gagggacttn 120
aatcacatca atgtataact cagccttntt ggaaagaaaa aaaagaggct ccgggttgac 180
aaatggtggg gtnacagaaa ggaactggct accgttcgga ctatttgtag tcatgtacag 240
aacatgatca agggtgttac actgggcttc cgttacaaga tgaggnctgt gtatgctcac 300
ttncccatca acgttgttat ccaagagant gggtctattg ttgaaatcca nant   354

<210> 739
<211> 504
<212> DNA
<213> Homo sapiens

<400> 739
ccgccatcat gggtcgcatg catgctcccg ggaagggcct gtcccagtcg gctttaccct 60
atcgacgcag cgtccccact tggttgaagt tgacatctga cgacgtgaag gagcagattt 120
acaaactggc caagaagggc cttactcctt cacagatcgg tgtaatcctg agagattcac 180
atggtgttgc acaagtacgt tttgtgacag gcaataaaat tttaagaatt cttaagtcta 240
agggacttgc tcctgatctt cctgaagatc tctaccattt aattaagaaa gcagttgctg 300
ttcgaaagca tcttgagagg aacagaaagg ataaggatgc taaattccgt ctgattctaa 360
tagagagccg gattcaccgt ttggctcgat attataagac caagcgagtc ctccctccca 420
attggaaata tgaatcatct acagcctctg ccctggtcgc ataaatttgt ctgtgtactc 480
aagcaataaa atgattgttt aact   504

<210> 740
<211> 399
<212> DNA
<213> Homo sapiens

<400> 740

```
ggacccgcca acatgggccg cgttcgcacc aaaaccgtga agaaggcggc ccgggtcatc 60
atagaaaagt actacacgcg cctgggcaac gacttccaca cgaacaagcg cgtgtgcgag 120
gagatcgcca ttatccccag caaaaagctc cgcaacaaga tagcaggtta cgtcacgcat 180
ctgatgaagc gaattcagag aggcccagta agaggtatct ccatcaagct gcaggaggag 240
gagagagaaa ggagagacaa ttatgttcct gaggtctcag ccttggatca ggagattatt 300
gaagtagatc ctgacactaa ggaaatgctg aagcttttgg acttcggcag tctgtccaac 360
cttcagtcac tcagcctaca gttgggatga tttcaaaac                          399
```

<210> 741
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 741
```
aaacaacggt cgtgccaaaa agggccgcgg ccatgtgcag cccattcgct gcacgaactg 60
cgcccggtgc gtgcccaagg ataaggccat caagaagttt gtcattcgga acattgtaga 120
agccgctgct gtcagggaca tatctgaagc aagcgtcttc gacgcctacg tgcttcccaa 180
gctctatgtc aagctgcatt attgcgtgac tgtgccatcc atagcaaggt tgttaggaat 240
cgatcccgct aagcccggaa ggaccgaaca cccccaccac gattcagacc tgctggcgct 300
gcaccttcga cctccaccaa agcccatgta aagangccgt ttttgtaagg acggaaggaa 360
aattaccttg gaaaaataaa atggaagttg tanttttaaa aaaaaaaaaa aaacccnagg 420
ggggncccgt c                                                       431
```

<210> 742
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)

680

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n.equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 742
gtgcagcggt tcattaaaat cgatggcaag gtccgaactg atataaccta ccctgctgga 60
ttcatggatg tcatcagcat tgacaagacg ggagagaatt tccgtctgat ctatgacacc 120
aagggtcgct ttgctgtaca tcgtattaca cctgaggagg ccaagtacaa gttgtgcnaa 180
gtgagaaaga tctttgtggg cacaaaagga atccctcatc tggtgactca tgatgcccgn 240
accatccgct accccgatcc cctcatcaag gtnaatgatc cattcatatt gatttanaga 300
ctggcaagat tactgatttc atcnatttcg acactggtaa cctgtgtatg gnnactg   357

<210> 743
<211> 249
<212> DNA
<213> Homo sapiens

<220>
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<222> (42)
<223> n equals a,t,g, or c

<220>

681

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<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 743
ggggcggtat gccgccaaac gcttccgcaa agctcagtgt cncattgtgg agcgcctcac 60
taactccatg atgatgnacg ggcgcaacaa cggcaagaag ctcatgactg tgcgnatcgt 120
cnagcatgcc ttcgagatca tacgcctgct cacaggcnaa gaaccctctg caggtcctgg 180
tgaacgccat catcaacatn ggtccccggg aagantccac ncgcattggg cgcgccggga 240
ctgttgana                                                      249

<210> 744
<211> 383
<212> DNA
<213> Homo sapiens
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682

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<400> 744
gaagaattgc atcgtgctca tcgacagcac accgtaccga cagtggtacg agtcccacta 60
tgcgctgccc ctgggccgca agaagggagc caagctgact cctgaggaag aagagatttt 120
aaacaaaaaa cgatctaaaa aaattcagaa gaaatatgat gaaaggaaaa agaatgccaa 180
aatcagcagt ctcctggagg agcagttcca gcaggcaag cttcttgcgt gcatcgcttc 240
aaggccggga cagtgtggcc gagcagatgg ctatgtgcta gagggcaaag agttggagtt 300
ctatcttagg aaaatcaagg cccgcaaagg caaataaatc cttgttttgt cttcacccat 360
gtaataaagg tgtttattgg ttt                                        383
```

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<210> 745
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<400> 745
gcgcacgatg cctggagtta ctgtaaaaga cgtgaaccag caggagttcg tcagagctct 60
ggcagccttc ctcaaaaagt ccgggaagct gaaagtcccc gaatgggtgg ataccgtcaa 120
gctggccaag cacaaagagc ttgctcccta cgatgagaac tggttctaca cgcgagctgc 180
ttccacagcg cggcacctgt acctccgggg tggcgctggg gttggctcca tgaccaagat 240
ctatggggga cgtcagagaa acggcgtcat gcccagccac ttcagccgag gctccaagag 300
tgtggcccgc cggntcctcc aagccctngg aggngctgaa aatggtggaa anggaccaag 360
atggcggccc gcaaactgac acctcaggga caaagagatc tgnacagaat cgccgnacag 420
gtggcagcnt gccancaaag aagcattaga nc                                452
```

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<210> 746
<211> 114
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
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684

<223> n equals a,t,g, or c

<400> 746
tgcatgctgg ngctggtcct gnccttgctg tcctccagct ctgctgagga gtacntgggc 60
ctgtctgcaa accaatgtgc cgtgncagcc aaggacangg tgnactgtgg ctac   114

<210> 747
<211> 165
<212> DNA
<213> Homo sapiens

<400> 747
ggcacagcca cccagggcct gagtcctgtc cacaccccag gtgacggccg gctccacaag 60
gcagtgagcg tgggcccccg ggtgcacatc attgaggagc tgcagatctt ctcatcggga 120
cagcccgtgg cagaatctgc tcctgggaca cccacagggg ggctg   165

<210> 748
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (541)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (580)
<223> n equals a,t,g, or c

<400> 748
ggctagaaga tggttttgga gagcacccct tttaccactg cctggntgca gaagtgccga 60
aagagcactg gactccggaa ggacacagca ttgttggttt tgccatgtac tattttacct 120
atgacccgtg gattggcaag ttattgtatc ttgaggactt cttcgtgatg agtgattata 180
gaggctttgg cataggatca gaaattctga agaatctaag ccaggttgca atgaggtgtc 240
gctgcagcag catgcacttt tttggtagca gaatggaatg aaccattcat naacttctat 300
aaaagaagag gtgcttctga tctgtccagt gaagaaggtt ngagacttgt taagaatcga 360
caaggagtct tgctaaaaat ggcaacntag gagtgaggaa tgcttgctgt agatgacaac 420
ctccattcta ttttagaata aaattcccca actttctntt gnttttctat gctggttggn 480
agtgaaatta atttaaatga gcacccattt caaaagcttt aattaccaag tgggcgnttg 540
ntnccntgtt ttgaaaattg aaggtcttgt tttaaaaggn ggc                  583

<210> 749
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c
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<400> 749
acncggaggc ttcttnatta cggncgggnn tgatgaggga aagctggtga cgcctgcagg 60
tgaccggtcc ggaattcccg ggtcgaccca cgcgtccggg cgtgatgtct cacagaaagt 120
tctccgctcc cagacatggg tccctcggct tcctgcctcg gaagcgcana gcaggcatcg 180
tgggaaggtg aagagcttcc ctaaggatga cccgtccaag ccggtccacc tcacagcctt 240
cctgggatac aaggctggca tgactcacat cgtgcgggaa gtcgacaggc cgggatccaa 300
ggtgaacaag aaggagggtg gtggaggctg tgaccattgt anagacacca nccatggtgg 360
tttgtgggca ttgttngcta cgttggaaaa ccctcgangg ctccggaact tcaagaatn 419

<210> 750
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 750
ggccgaacat ggagatcaag attatatctg gcactgcatt gatctcttct tagatttcat 60
tactgtcttc agaaaactca tgatgatcct ggccatgaat gaaaaggata agaagaaaga 120
gaagaaatga agtgaccatc cagcctttcc caattagact tcctctcctt ccacccctca 180
tttccttttt gcacacatta caggtggtgt gttctgtgat aatgaaaagc atcagaaaag 240
cttttgtact ttgtggtttc ctctattttg aattttttga tcaaaaaact gattagcaga 300
atatagtttg gagtttggct tcatcttcct ggggttcccc tcactccctt ttttggcaac 360
cccatctgta gcctcttcct ctactcaggc agtcgacccg ccacgatgag aagtgggacc 420
agcagagggc gccaacttca ggagcccgct ttnccaccca gcttcattca cccantggac 480
ctgaactgtt tgggtananc ccnccgg   507

<210> 751

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<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (331)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 751
nactggaagt nctccgggag aanggatctc nacngcggtg ccggacgctc tagaactagt 60
ggatccccg ggctgcaggt agcctgagct tagctcagcg ccggggcttn accaagacct 120
acactgttgg ctgngaggaa tgcacagtgg ntccctgntt atccatcccc tgcaaactgc 180
agagtggcac tcattgctng tggacggacc agctnctnca aggctntgaa aagggcttnc 240
agncccgtca ccttgcntgc ctgcctcggg agccagggct gggcacctgg cagtncctgc 300
ggtcccagat agcctgaata ntgnccggag nggaagctga agcctgcaca gtgtncaccc 360
tgntnccact cccatctttc tttcggacaa tgaaataaag agntaccacc cagcaaaaan 420
aaaaaaaaaa acctg 435

<210> 752
<211> 591
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c
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692

<220>
<221> misc feature
<222> (579)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c

<400> 752
gcggcacgag gcgcccagag agacaccaga gaacccacca tggccccctt tgagcccctg 60
gcttctggca tcctgttgtt gctgtggctg atagcccca gcagggcctg cacctgtgtc 120
ccaccccacc cacagacggc cttctgcaat tccgacctcg tcatcagggc caagttcgtg 180
gggacaccag aagtnaacca gaccaccta taccagcgtt atgagatcaa gatgaccaan 240
atgtataaag ggttccaagc cttaggggat gccgctgaca tccggttcgt ctacaccccc 300
gccatggaga gtgtctgcng atactttcac aggtcccaca accgnagcga ggagtttctc 360
attgntggaa aactgcagga tggactttg cacatcacta cctgcanttt tgtggctccc 420
tggaacagcc tgagcttagc tcagcgccgg gncttnacca agacctacac tgttggctgn 480
gaggaaatgc acaagtgctt ccctgtttat ccatccctg caaactgcag agtgggcact 540
cattgcttgt aggacngacc agctcctacn angctcttna aaaggncttt c   591

<210> 753
<211> 547
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<400> 753
aagcacttgt ccagatgagc agtgtgtgaa ttctcctgga tcttaccagt gcgttccctg 60
cacagaagga ttccgaggct ggaatggaca gtgccttgat gtggacgagt gcctggaacc 120
aaacgtctgc gcaaatggtg attgttccaa ccttgaaggc tcctacatgt gttcatgcca 180
caaaggctat acccggactc cggaccacaa gcactgtaga gatattgatg aatgtcagca 240
agggaatcta tgtgtaaacg ggcagtgcaa aaataccgag ggctccttca ggtgcactgt 300
ggacaggggt taccagctgt cggcagctaa agaccagttt gaagacattg atgaatgcca 360
caccgtcatc tctgttgctc atgggcatgc aagaacactg aagctctttt ccatgtgttt 420
tttgaccang gttacagaac atctgggctt gganacactg tgaaaaattt caatgaatgc 480
ttggaagana aaattttgc canaaaagaa antgctttat actgcagggt cctatgatgt 540
cttgtcc 547

<210> 754
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<400> 754
gctcggctcc agcgccatgg cgccctccag gaagttcttc gttgggggaa actggaagat 60
gaacgggcgg aagcagagtc tggggagct catcggcact ctgaacgcgg ccaaggtgcc 120
ggccgacacc gaggtggttt gtgctccccc tactgcctat atcgacttcg cccggcagaa 180
gctagatccc aagattgctg tggctgcgca gaactgctac aaagtgacta atggggcttt 240
tactggggag atcagccctg gcatgatcaa agactgcgga ccacgtgggt ggtcctgggg 300
cactcanaga gaagcatgtc tttggggaat cagatgagct gattgggcag aaagtggccc 360
atgctctggc aganggactc ggat 384

<210> 755
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

694

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<400> 755
tgtagatctt tgaagactct gattctctga gactgaggag agatgtctta ccagcagcan 60
cagtgcaagc agccctgcca gccacctcct gtgtgcccca cgccaaagtg cccaagagcc 120
atgtccaccc ccgaagtgcc ctgagcctta cctgcctcct ccttgtccac ctgagcattg 180
cccacctcca ccttgccagt ataaatgccc tcctgtngca accataccac cctggcagcn 240
gaanttcccc cnn   253

<210> 756
<211> 183
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
·<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 756
ggcanaaana aggtaggaat aaggctagac ctttaacttc cctaaggnat acttttntag 60
ctaccttctg ccctgtgtnt ggnacctaca tccttaatga ttgtcctntt acccattctg 120
gaattttttt tttttaaaa naantncnga aagcattttg aaaaaaaaaa aacaaaaaaa 180
aag                                                           183

<210> 757
<211> 99
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<400> 757
agcctttaat anatcatata ggaaantggt agntgcagta cggtnggaat tccgggtgac 60
tcagcgtccg ggattgnanc anctgggatt ggagtttgg                       99

<210> 758
<211> 60
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<400> 758
ggcacgaggt tttttttttt tttttttttt tttttntntn tttnntttt ttaaaaaaaa 60

<210> 759
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<400> 759
agaganaacc gagttttttt tttttttttt tttttttttt tttttttttt tttttttttnc 60
ccntnn                                                          66
```

```
<210> 760
<211> 487
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<400> 760
tacagatgga gcaaatgtcc taacagagaa atagaggtga tgctgctaaa gggagaaatg 60
ccaggcggac aaagttcagt gtcgggaatt ttccccgtga cattcactgg ggcatgagat 120
tttggaagaa gttttttact ttggtttagt ctttttttcc ttccttttta ttcagctaga 180
atttctggtg ggttgatggt agggtataat gtgtctgtgt tgcttcaaat tggtctgaaa 240
ggctatcctg ctgaaagtcc tgctttccta tctagcattt atttctctgg caaacttttc 300
tttcttttct tttttaaagt aaacttgtgt attgagctta actgtatttc agtatttcca 360
gcttatgtgt acattattcc aatgataccc aacagttatt tatattttnt aacaaattca 420
cagtctgaat gangacttta tttcatggat tataataagg aatgaggtaa ttngngnctc 480
acattca                                                        487
```

```
<210> 761
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c
```

699

```
<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<400> 761
gaaaaggcta aaatcatgaa ttagttacaa gcaacagtac caacttatgt gacccctgag 60
gggtggggct gtgagctctt aatttgtttt tgattctgaa aaactctgct tcctggcatc 120
caggagttag agattgagcc tttcatcttc tttctcaaaa ctagtttttg atgctttctt 180
tcatgggaat agtcactttt ttatttagta aatcgcattg ctggaaccac caaggatgtg 240
gaatgtcctt gantgtatta tttatgcaag tcacagtcac gtttgccatc atggcantat 300
ttgaaacact aataatgtgt ttttactttt ttatccccgt taaaatgatn ttnaaaagga 360
aaaaggtggt tatagcccct anaatttctg ggtccaaatt atnccnaaaa tttcctaaaa 420
aa                                                        422


<210> 762
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c
```

700

```
<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<400> 762
tttgaccact tgccaagtcc ctgtctcttt cagacacaga caagcttcat ttaaattatt 60
tcaactgatg aagtaacaat aaagttataa atgataatga tcagatgaaa taatttataa 120
ctttattgtt acttcatcag tgtttccttt tgaaaggtgt atgaattcat tacattttta 180
ttctaatgta ttatctgtag attagaagat aaaatcaagc atgtatctgc ctatactttg 240
tgagttcacc tgtctttata ctcaaaagtg tcccttaana gtgtccttcc ctgaaataaa 300
tacctaaggg agtgnaacag tctctggagg accactttga gcctttggaa gttaagggtt 360
cctcagccac ctngt                                                  375

<210> 763
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

701

<222> (354)
<223> n equals a,t,g, or c

<400> 763
caatatgtag cttactcttt ttttcccccc ttcttaaacc accagtggtt cattttttaag 60
atttttttcat caagagaaga ataactttac taaattttat ttctttattt gcaaaagaat 120
ctttattaaa acaaacaatc ttaactatgc acatgatgtg accagatcat cttgaaaata 180
ttcctctttta gtaggaactc tttgtttttta actcttggta tggtcagaat ataatacttc 240
cataattact tataattcct ntccgggtac tggggctat aaatacaact ttttttaaatg 300
naattcatgg ttatcaaccn ggctccaagt accattangg ggtnccctat gggnaattac 360
cttgggaaag tc   372

<210> 764
<211> 195
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<400> 764
cggacgcgtg ggcggacgcg tggggaaagg taagctctag cttaangtct angatttgtn 60
ctttganatt naggaaggta aggatnggtc agangatgta acttgatgtg agcagtaata 120
aacctgtntt aaatatcata ctgtgnatat ntnattgaaa atttatttca gagcggaaaa 180
acnttagcta aaatc                                                  195

<210> 765
<211> 103
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<400> 765
attaataatg gataccattc taaacaagtn aatccaagtt aagcccgtta aggagaaaga 60
aattaaggtt agcggntcat gtncaagctg ngtntgaaag tgg                  103

<210> 766
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<220>
```

704

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (522)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<400> 766
cccgcgcggg cgcaggcggc cggaatggcg gggcccggct ggggtccccc gcgcctggac 60
ggcttcatcc tcaccgagcg cctgggcagc ggcacgtacg ccacggtgta caaggcctac 120
gccaagaagg acactcgtga agtggtagcc ataaagtgtg tagccaagaa aagtctgaac 180
aaggcatcgg tggagaacct cctcacggag attgagatcc tcaaggcatt cgacatcccc 240
acattgtgca gctgaaagac tttcagtgtg agctgggggc ggggncgctg ccaaaaggag 300
tggagaagga catctntttc aggccgnctc tctgcctctt aaaacaacag ttgggaacag 360

705

```
ttgaaccaat taatcttanc ttcaatccat tgggaagttt ttttgccggc caagggggg 420
gccggaaacc ttggtncttc nggcntttcn aatcccaatt aaaccccggc caanggaatt 480
ttcttggccc cttgaaagaa aaanggtttg ggcccncccn tnggtncctt tccnaatg   538
```

```
<210> 767
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<400> 767
```
```
ctttcccaag ggaaacactc agctttctat agaaaattgc acttttttgtc gagtaatcct 60
ctgcagtgat acttctggta gatgtcaccc agtggttttt gttaggtcaa atgttcctgt 120
atagttttttg caaatagagc tgtatactgt ttaaatgtag caggtgaact gaactggggt 180
ttgctcacct gcacagtaaa ggcaaacttc aacagcaaaa ctgcaaaaag gtggtttttg 240
cagtaggaga aaggaggatg tttatttgca gggcgccaag caaggagaat tgggcagctc 300
atgcttgaga cccaatctcc atgatgacct acaagctaga gtatttaaan gcagtggtaa 360
atttccagga aagccagaag ttaaaggcca aaattgtaaa tcagtcgaga tcggg      415
```

```
<210> 768
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
```

```
<223> n equals a,t,g, or c

<400> 768
ctttgtacag gggctcagtt cagggaagag ttgagcttct ctctgagggg tccctagggg 60
gacccctcag gccaggccct gatccagttc tccagggtct ttctcagggt caggtccatg 120
gggagaccat ggggtgcttg tctgacactg acctcgccct gctgagtccc cccatcagac 180
tgtccttcct ctgcagcgag tgtctgcagg gtctggatcc aggaaaggaa ttctgatctg 240
tggaagtttg tctcccccgt gtgtgtcctg cactaaatgt ccaaaccctg atacaggatg 300
taatgcagag agggccacag gcacaaccca ggcctgacaa tcccgtatgt nggaagtaga 360
actgacccccc aacacccaga ngtcatgtng aaatactcac ggtatacatg gaaaaaaaaa 420
annaa                                                               425
```

```
<210> 769
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<400> 769
attctagatg tagcttgtgc agatgtagca gganaatagg aaaacctacc atctcagtgn 60
gcaccagctg gcctcccaaa ggngnggcag ccgtgcttat atttttatgg tnacaatggn 120
cacaaaatta ttatcaacct aactaaaaca ntccttttct ctnttttcct ggaattatca 180
tggagttttc taattctctn ttttgggaat ngtagattgt ttttgaaatg ctttnacgat 240
gttaaaatan tttatt                                                 256

<210> 770
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<400> 770
ggnagaggtt caacgatgtg gtgtggcatg taagctggtc catcanagcc aacatcctgg 60
ctgtctctgg tggagacaat aaggaggagt tacagatgca gccacagatt gatcatctgc 120
ctttaacgtg aatcggagat gctttgtaat ctactgtncc agctgaagca ctncatgtta 180
```

```
cgaggaagaa actacaagtn atgttcaaat ctattttggg tcattttnat gtacctttgg 240
gttcaggcat tatttggggg gttttnnttc caaaggaact naantaaagt natnttgctt 300
attaaaaaaa ggaaaa                                                316
```

```
<210> 771
<211> 68
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<400> 771
caaaagcngg agcnccaccg cnggcgaccg cnctanaact agtggatccc ccggnctgca 60
ggaattca                                                        68

<210> 772
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<400> 772
cggacggtgg gtttttntnt tttttttttt tttttttttt tnttntnttt tttttttatn 60
nttgggtcat ttccacatgc tttattccag caatcaaaat aattaaaaac atctcaaatt 120
attatacaca tacaaaatng gtacagagtc ttttncttcc tcccaccoct aggggaaaa 180
actgctttnt gctttgggaa gttgtctctg aaacccgggg acagnggacg caggncagac 240
taggagggan ccgggang                                              258

<210> 773
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (572)
```

712

```
<223> n equals a,t,g, or c

<400> 773
ggatcccaac tgctcctgcg ccgccggtaa gaggctgggg atgcccagtg tagactgtag 60
cgctagagaa gcaatttctg acccctcttt ctttctctgg tcactcaatt tcaggacagg 120
agttgctcct tcccaaagag ttttggggta tctttctctc cattctaggt tattcggagc 180
ccccttttta ccgttaagga gatctgagtt aatggcttgc tcaagttccc aggaatcggt 240
tgtggactga ggaactcggc cccgggctct tagtacgccg tcccttgttc aggtatccag 300
ggacggttct cacctctgtc ttttctcctt gcaggtgact cctgcacctg cgccggctcc 360
tgcaaatgca aagagtgcaa atgcacctcc tgcaagaaaa gtaagtggga tcctctcttt 420
cctctacccc ttcctgtcct ccagcctgtc ccctcttcac catcctcagg ggaattaaag 480
caagtctggg gatgccccat tgcgccggga aattggtggc ctcctcagtg atccntatca 540
aggagaagca aggaatccnt aattnccggn gnccgttgta cttaact          587

<210> 774
<211> 89
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (86)
<223> n equals a,t,g, or c

<400> 774
ggcagaggga aacatcaggn atgctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaanannana aanaantat                                  89

<210> 775
<211> 113
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c
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<400> 775
ggtccggcgn ggtggaggga aacgcctccn tntctatata aggaatttcc cggtgtntnc 60
gggtcctttt ccctntnttc agagtggggg gcccaaattt gggcgntctg ttt   113

<210> 776
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 776
ggcanaggat ttnaaccctc accttcgtgt ttcccccaat gtttaaaang tttggatggt 60
ttgtng   66

<210> 777
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 777
atttgtatga aagaacttaa gcaaccttaa tattggctga gacttttaaa agagaaggag 60

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aatttacttt tttgcctaat taggaggaag cttggtcata aggaaaaaga gctgtgttta 120
ggaaatagtg tgtgcccttt gaattaatgg agtgacaccg tgattcatga caggattcca 180
tttactggct gtatgccagc tgctgacagt ctataagtct taatagagat ggagtagagg 240
agctgaaggt tggcatctgc tcattgatga caactatgtt tacaatatgt tgtggactag 300
ttggggcact gaggcaggag aatcacgtgg agcccacggg ttcaagacca gcctgggaaa 360
catagcaaga ccttgtttct aaaaaaaaaa aaaaaaaaac ncgagggggg gcccggtacc 420
caattcgccc taaagngagt c                                          441
```

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<210> 778
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<400> 778
gcttactttt aaccagtgaa attgacctgc ccgtgaagag gcgggcataa cacagcaaga 60
cgagaagacc ctatggagct ttaatttatt aatgcaaaca gtacctaaca aacccacagg 120
```

```
tcctaaacta ccaaacctgc attaaaaatt tcggttgggg cgacctcgga gcagaacccca 180
acctccgagc agtacatgct aagacttcac cagtcaaagc gaactactat actcaattga 240
tccaataact tgaccaacgg aacaagttac cctagggata acagcgcaat cctattctag 300
agtccatatc aacaataggg tttacgacct cgatnttgga tcaggacatc ccgatngtgc 360
agccgctatt aaaggttcgt ttgttcaacg attaaagtcc tacgtgatct gagttcagac 420
cggagtaatc caggtcggtt tctatctact tcaaattcct ccctggaaaa nnagaagngg 480
nng                                                                483
```

<210> 779
<211> 389
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<400> 779
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ccctcttccc ggctccagct ccgccgccag ctccagcctt tgctcccccct cccaaagtcc 60
cctccccgga gcggagcgca cctagggtcc ctcttccgtc cccccagccc agctacccgt 120
tcagaccagc agcctcgggg ggcacccccc cgccagcctg cctccctccc gctcagccct 180
gccaggttcc cccagccatg aatctcttcc gattcctggg aaaactctcc caactcctcg 240
ccatcatctt gctactgctc naaatctgga attcccgctc gtgcgccgaa attcaggaaa 300
aaaacagtcc cgtttggtgt ggggntttca atggccnaat ttgaaatcct ttcacaataa 360
tntttantct aaaaattttt ttaaagggn                                   389
```

<210> 780
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<400> 780
ttgtttttaa aactatgnac caggtttcta atgatgaaat aaagcacctg tttgtttttat 60
accaaa   66

<210> 781
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<400> 781
ggcagagcag agcagacgca caggccggaa aaggcgcatc taacgngtat ctaggctttg 60
gtaactgcgg acaagttgct ttnacctgaa tttnatgata catttcatta aggttccagt 120
tataaaatat ttngttaaat atttattaan gtggactata gantgcaaac tnccatttnc 180
cngntaaact tgtttttaaa ttatggccnt aggtaaccca tatngtaggg tattaatttc 240
cttggaacca aacca   255

<210> 782
<211> 348
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
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720

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<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<400> 782
ttnagtagag acagggtttc accatgtnag tnaggctggt ctcgaactcc tgacctcagg 60
tgaatccacc cgagnttggc ctcccaagtg gctgggcatt ataggcgtga gcactcacgt 120
ccncgcctca aaatngcata ttcaaagaag caatttcagt tcctttctaa gctttgtnag 180
tnaaggggct ccactgactt cctaggccct gtaaatttaa accagtcttt aaggttttgc 240
caggaaagtt cccttctttc caagtgggtt tttccaaatg ggcacaatgg caagcnanac 300
agaggangaa acattaaaaa aannaaaaaa aatttggggg ggggnncc            348

<210> 783
<211> 160
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<400> 783
ggcacgagct acaatggcac tgtggactna tgtttccttc gccgagngnc tggagcgggg 60
atctgatgaa aaggtcanac tnaaacgcct tgcacggctt ctcggcttga tcacagctcc 120
ctaggtaggt naccacagag nngncncttc tagtgagcct                       160

<210> 784
<211> 81
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c
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722

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<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<400> 784
ggcacgagcc gggatcgtgc cattncattc cagtctgggt gacagagcta gactccatct 60
caaaaaaaaa aaaaaannng n                                        81

<210> 785
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (539)
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<223> n equals a,t,g, or c

<400> 785
gagctgcagg catcagagaa ccagccctgc tcacgccatg cccgcccccg ccttccctct 60
tccctcttcc ctctccctgc ccagccctcc cttccttcct ctgccggcaa ggcagggacc 120
cacagtggct gcctgcctcc gggagggaag gagagggagg gtgggtgggt gggangggc 180
cttcctccag ggaatgtgac tctcccaggc cccagaatag ctcctggacc caagcccaag 240
gcccagcctg ggacaaagct ccganggtcg gctggccgga gctattttta cctcccgcct 300
ccctgctgg tgcccccacc tggacgtctt gctgcagagt ctgacactgg attnnnaaaa 360
nctnaaaang aaccctggta cccaattctg ggncccggnc ctaanctcgg ncccaaccca 420
tcatctgtgg acaatggagt ctggaataaa tgctgtttgt canatcaaca aaaaaaaaaa 480
aaaaggggng gccgctttag aggattcaaa gcttaagtaa nggtgcatgn gaagttcana 540
a   541

<210> 786
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<400> 786
cccacgcgtc cggtctaaca cgtgcgcgag tcgggggctc gcacgaaagc cgccgtggcg 60

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caatgaaggt gaaggccggc gcgctcgccg gccgaggtgg gatcccgagg cctctccagt 120
ccgccgaggg cgcaccaccg gcccgtctcg cccgccgcgc cggggaggtg gagcacgagc 180
gcacgtgtta ggacccgaaa gatggtgaac tatgcctggg cagggcgaan cagaaggaaa 240
ctctggtgga ggtccgtagc ggtcctgacg tgcaaatcgg tcgtccgacc tgggtatagg 300
ggcgaaagac taaatcgaac catcttagta agctggtttc cctccgaaan tttccctcaa 360
gataagcttg gcgctctcgc aagaccccga aggaaccccn gncanggaat ttttatccgg 420
tnaaagcgaa ttg                                                   433
```

<210> 787
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<400> 787
```
cccaggatgt gtggcgagag cctgggccag cccacagcgt tcctagtcag gcagccacac 60
cttggtcctc atcttggtcc cttccaatct gaaacctcgt gcctggctcg tctgccacct 120
acatttctct ttccagctgc tgttttgtaa aaagaaaaag aaaaaagaag cccaaactag 180
tgagagtaat atctaattat ctcatttttt gtaggtctgt gataaagaac ttagtcatcc 240
cttccacctc ctactgtgaa gaacagaccc tgggtcccac actgaaatcc cctctagtca 300
cccattccca cccccaggg agctgcctcc caggcagggg gtgcagaaaa tgattgatgg 360
gctggggaac cctggagagc ctcgactccg gaagtctcaa ggtgcctcct cctctcctta 420
gctggcccgt tggttttctg agcaggggc tgaactgtga acaagtcaga caaataaagc 480
aagggtctgc ancatctgca atgtcaaaaa aaaaaaaaaa aaaaaa        527
```

<210> 788
<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature

```
<222> (181)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c


<400> 788
gcttcatgtg gtctgacaat ttatttttgc catcattttt ttaattaaag aaaaaatttc 60
cagaagagga aaaaaaaact acaaaaaaca aaacattgaa ggttgatatt ttatgtggaa 120
naacatttga attgaattca gaattttttct gaaggtgtan atactttttt tttttttttna 180
ncaaaaaccc tnatttcaaa agg                                        203


<210> 789
<211> 124
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c


<400> 789
ggcacgagca gcctacagcc gcctgcatct gtatccancg ccaggtcccg ccagtcccag 60
ctgcgcgcgn ccccccagtcc cgcaccngtt cggnccaggc taagttagcc ctnaccatgc 120
cggt                                                            124


<210> 790
<211> 293
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```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
```

728

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 790
ggcanagcgg cagtccagga cctgcaggcc ccagaggacc tgtnggaccc antggacctc 60
ctggcaaaga tggaaccant ggacatccag gtgccattgg accaccaggg cctcgaggta 120
acagnggtga aagnggatct nagggctccc cagggccacn cagggcaacc agggccctnc 180
tggnacctcc tggtgcccct ggtccttgct gtggtggtgt tngagccgct gccattgctg 240
ggattgggag gttgaaaaag cttggncggt tttgnccccg ngtttantgg ggg        293

<210> 791
<211> 129
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (113)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c


<400> 791
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaggg gcggccgttt tanaggatcc aagnttacgt acncgngcnt 120
gcaacgtca                                                        129


<210> 792
<211> 267
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (247)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c


<400> 792
ggcacgagcg gccttgagcg cgacgaagac gtgtaggcct gctttccgag gggcgagcgc 60
ggcgccgcgg ggaggagggc ctgcgcgcag tcccgggcgc gttctagggc gccatgctgc 120
```

730

```
gggaagtctc gcgcgattag tggggaggtc tcgcggcttc tggctacttg gtggcgaggt 180
gaagagcttc tgcaggtgct gggggcggcg aacgcggcgg gaaagaaaaa aaaaaaaaaa 240
aaaaaanctn ggnaagtatt tttanan                                     267
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<210> 793
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<400> 793
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ggggaaaagt tttggcagga gcgggagaat tctgcggacc tgcgggacgg cggcggtggc 60
gccgtagnag ccggggacag gtcagtccga gacgagagaa gcggtcagtg ttgtacagtg 120
ttttgggcat gcacgtgata ctcacacagt ggcttctgct caccaacaga tgaagacaga 180
tgcaccaacg aggctgatgg gaaccatcct gtagaggtcc atctgcgttc agacccagac 240
gatgccagag ctatgactgg gcctgcaggt gtggcgccga ggggagatca gccatggagc 300
agccacagga ggaagcccct gaggtccggg aagaggagga gaaagangaa gtggcagaag 360
cagaaggagc cccagagctc aattggggac cacagcatgc acttccttcc agcagctaca 420
cagactctcc cggagctcct cgncaacctt atg                              453
```

```
<210> 794
<211> 141
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
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<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<400> 794
caacgaccgc gtttncntgg cacggggtcn ggcccgcctg gccctgggaa agcntcccac 60
ggnggggggcg cgccggtctc ccggagcggg accgggtcgg aggatggncg agaatcacga 120
gcgacggtgg tngtggngtg t   141

<210> 795
<211> 167
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<400> 795
ggggacccac ccgagggtcc agccaccagc cccctcacta atagcngcca cccnncagc   60
ngcggcacag cagcagcgac gcagcggcga cantcagagc agggaggccg cnccacctgc  120
gggccggccg gagcgggcag ccccangcnc cctccccggg cacncgc                167

<210> 796
<211> 331
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

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<221> misc feature
<222> (10)
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<220>
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<222> (16)
<223> n equals a,t,g, or c

<220>
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (41)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (56)
<223> n equals a,t,g, or c

<220>
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<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

734

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<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
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<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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736

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<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<400> 796
aattcggnan cacgcnacgn cataccgtgg cagnttctgt ntgagacgaa catncngnag 60
nctccactca gctaatgtna caacatgngn nctacttctc nctnnctttt acannnacag 120
gannnnggcc nnagttaata tatccngtgt acctcactgt ccaatatgaa aaccgtaaag 180
tgccttatag gnatttgcgt aactaacaca ccctggttca ttganctnta cttgctgaag 240
nngnaaaaga caggataagn tttcaatagt ggcataccan atgggacttt tgatgaaatg 300
aatatcaata ttttctgcaa ttccatgngc t                                331

<210> 797
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c
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737

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<220>
<221> misc feature
<222> (597)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (598)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (635)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (657)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (678)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (695)
<223> n equals a,t,g, or c

<400> 797
gctccacctt actaccagac aaccttagcc aaaccattta cccaaataaa gtataggcga 60
tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga aaaattataa 120
ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat taactagaaa 180
taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta cctaagaaca 240
gctaaaagag cacacccgtc tatgtagcaa aatagtggga agatttatag gtagaggcga 300
caaacctacc gagcctggtg atagctggtt gtccaagata gaatcttagt tcaactttaa 360
atttgcccac agaaccctct aaatcccctt gtaaatttaa ctgntagtcc aaagaggaac 420
agctctttgg acactaggaa aaaaccttgt agagagagta aaaaatttaa cacccatagt 480
aggcctaaaa gcagccacca attaagaaag cgttcaagct naacacccac tacctaaaaa 540
aatcccaaac atataactga actnctacac ccaattgggc caatctatna ccctatnnaa 600
gaactaatgg tagtataagt acatgaaaac cattnttctt cgnataagcc ttgcgtnaga 660
attaaaacac tgaactgnac attaaacagc caatntcta                      699


<210> 798
<211> 138
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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<400> 798
cccggcacag agtcgatgct caataaatgt gtgttgactg catgaatgac ctggaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaancccn 120
gggggnncc ccnccccc                                                138

<210> 799
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
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739

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<400> 799
cacactgtna tgctagcctc acgaaactgg aataagcctt cgaaaagaaa ttgtccttga 60
agcttgtatc tgatatcagc actggattgt agaacttgtt gctgattttg accttgtatt 120
gaagttaact gttcccttg gtatttgttt aatacccgt acatatcttt gagttcaacc 180
tttagtacgt gtggcttggt cacttcgtgg ctaaggtaag aacgtgcttg tggaagacaa 240
gtctgtggct tggtgagtct gtgtggccag cagcctctga tctgtgcagg gtattaacgt 300
gtcaaggctg agtgttctgg ggaattctct agaggctggc aagaaccagt tggttttgtc 360
cttgcggggt ctgtcaaggg ttggaaatcc caagccgtag gacccagttc cctnccttaa 420
ccgaagtctt tggccaaaca cnngggccgt aactggcctt gagttggaac ggttgcataa 480
gccgnaaagn atcaac                                                   496

<210> 800
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (190)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (487)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (500)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<400> 800
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gctgaaaaag gngggggggga gccaattann acgcccagac ggantaaccc caggccccgc 60
cacaccaccc cttgccaaan tcatctgcct gctccccggg gggagangac cgccggcctc 120
tnctactagc ccaccagccc accagggana aaataancca tganangcng cgnccgccac 180
ccngtgtncn cantccccnc cttcccgntt cccttagaan cctgccgcgt cctatctcat 240
gacgctcatg gaaccncttt ctttgatctn ctntntctta tctcccectc tttntngttc 300
taaagaaaat cattttgatg caaggtcctg cctgnnatca natccgaagt gctcctgcag 360
tnacccttn cctggcattt ctcttccacg cgacaagtct gctagtgaga tcttgcatga 420
ctcactttgt ttccaaaacc cggggctatt ttgcatctca agtttcctgg ggcctgcttc 480
ctgtgtncca cttaagggcn nctgggccaa gactgt                            516
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<210> 801
<211> 284
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<400> 801
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naagcncccg gngaacttgg ggaaggcncg cctgcaggta ccggtccgga attcccgggt 60
cgaccttcgc gtttttatat atatagatat atatatagat atatatagat atatatatag 120
atatatatag atatatatat agatatatat agatatatat agatatatat agatatatag 180
atatatatag atatatatag atatatagat atatatagat atatatagat atatagatat 240
atatagatat atagatatat atatatctgg ctcatgcatg aaaa                   284
```

<210> 802
<211> 153
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

744

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<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<400> 802
cggacggctg tgtagcgcgt gggtgtaaga cttgcccaag tcccanagca cctcacctcc 60
cgaagccacc atccccaccc tgtcttccac anccgcctga aagccacaat gagaatgant 120
cacactgagg cctngatgtn ctntaatcac ttg                                 153

<210> 803
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<400> 803
cacgtgagat taaaaccaat tttttcccca tttttttctcc tttttttctct tgctgcccac 60
attgtgcctt tattttatga gccccagttt tctgggctta gtttaaaaaa aaaatcaagt 120
ctaaacattg catttagaaa gcttttgttc ttggataaaa agtcatacac tttaaaaaaa 180
aaaaaaactt tttccaggaa aatatattga aatcatgctg ctgagcctct attttctttc 240
tttggatgtt ttggattcag tattcctttta nccataaatt tttagcattt aaaaattcac 300
nggatggtac attaagccaa taaactggct ttaatggatt acccaaaaaa aaaaaaaaaa 360
aaagggggggn cgcnncagag ggn   383

<210> 804
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature

746

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<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<400> 804
ggcacgagct gggttgtcct ttgcatctgc acgtgttcgc agtcgtttcc gcgatgctga 60
ctctggagct cagcacagcc ctggagcacc aggngtacat tacttttctt gaagacctca 120
agagttttgt caagagccag tagagcagac agatgctgaa agccatagtt tcatggcagg 180
ctttggccag tgaacaaatc ctactctgaa gctagacatg tgctttgaaa tgattatcat 240
cctaatatca tgggggaaaa aataccagat ttaaattata tgttttgtgc tctcatttat 300
ttatcatttt tttctgtaca aatctattat ttctaggttt ttgtattaca tgatagacat 360
aaattgggtt atctcctcca ggcagtttgt cttttcnant nctcccccctt caaccgtgtc 420
acaaagacca gacngtgtcg ggaaagtttt ttttctccgt attgttaaag gttccatnca 480
attaggttta ataaaggctt nttntccag                                    509

<210> 805
<211> 753
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (648)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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747

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<222> (718)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (736)
<223> n equals a,t,g, or c

<400> 805
ncaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggttgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagtccaa 420
agaggaacag ctctttggac actaggaaaa aaccttgtag agagagtaaa aaatttaaca 480
cccatagtag gcctaaaagc agccaccaat taagaaagcg ttcaagctca acacccacta 540
cctaaaaaat cccaaacata taactgaact cctcacaccc aattggacca atctatcacc 600
ctatagaaga actaatggta gtataagtaa catgaaaaca ttctcctncg cataagcctg 660
cgtcaganta aaacctgact gacaattaac agcccaattc tacaatcaaa caacaagnca 720
ttattaccct tactgncaac ccaaccaggc atg                              753

<210> 806
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
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<220>
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<222> (352)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<400> 806
ggaagaagga ngaaaagcag gaagctggaa aggaaggtac tgcaccatct gaaaatggtg 60
aaactaaagc tgaagaggta ctttccataa atacctccca ctgattgaat cagtgtcttt 120
aaagaaattt ctcaatcctt cagccggtga tagcacgttc ttaatgtctc tttttattgc 180
ctgtaatgtt attgcagatc cacatctctc gctcaactgt taatgtctca acctccagag 240
gcaccccacc cagcacactg tcagtaaagg ggcagaatga aacagtgaga gttaagggta 300
caggaagaaa atttgcatgt ttgcaagtga ctagaatcag atagtaagtg gnggtgggtt 360
tttttttta atcattatga aanagtggga agcttngnag gtna   404

<210> 807
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
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<222> (20)
<223> n equals a,t,g, or c

<220>
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<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

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<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
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<222> (283)
<223> n equals a,t,g, or c

<220>
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<222> (400)
<223> n equals a,t,g, or c

<220>
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<222> (413)
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<220>
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<222> (417)
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<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
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<222> (426)
<223> n equals a,t,g, or c

<400> 807
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750

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aggcagatgc tcctctggtg ggagggtgnt ggcccggcaa gattgaagga tgtgcagggc 120
ttcctctcag agccgcccaa actgccttga tgtgtggagg ggangcaaga tgggtaaggg 180
ctcaggaagt tgctccanga acagtagctg atganctgcc cagagtgcct ggctccagcc 240
tgtacccttg gtatgccntg aacatntggt ttccccaccc aantgcggct aagtctcttt 300
ttccttggat cagccaggcg aaattggggc tttgacaagg aattttctaa ggaaaccttg 360
ttaaccagac aaaacacaac cagggttaca gggggtatgn aagggttttc tgncccngga 420
ggnttnag                                                           428
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<210> 808
<211> 403
<212> DNA
<213> Homo sapiens

<220>
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<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
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<222> (85)
<223> n equals a,t,g, or c

<220>
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<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
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<222> (261)
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<220>
<221> misc feature

<222> (265)
<223> n equals a,t,g, or c

<220>
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<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
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<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<400> 808
cnagccccga ggggctctcg cttctggcgc caangcccgg ccgcgcgccg gccgggccga 60
cnccgctccg gggacagtgc caggngggga gtttgactgg ggcggtacac ctgtcaaacg 120
gtaacgcagg tgtcctaagg cgagctcagg gaggacagaa acctcccgtg gagcagaagg 180
gcaaaagctc gcttgatctt cattttcagt acgaatacag accgtgaaag ccgggcctca 240
cgatcctcct gaccttnncg ntttncagcn ggaggtgtca gaaaantnac cacagggata 300
actcgcttgt cgcggccaag cgttcatagc gacgtcgctt tnccangtnc gatgtcggat 360
cttcntatca ttgtnaagca gaattcacca agcgttggat tgt   403

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<210> 809
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c

<400> 809
tcgacccacg cgtccgggac gacagttagc tatgctgata cccttctgtg aggagttgaa 60
tttgaagacc acttggctgt ttcacaaaac cagaagtaat tacagggtgt tcctgaaaag 120
ccccatagtg attgagtctt caaaaccacc gattctgaga gcaaggaaga ttttggaaga 180
aaatctgact gtggattatg acaaagatta tctttttttct taagtaatct atttagatcg 240
ggctgactgt acaaatgact cctggaaaaa actcttcacc tagtctagaa taagggaggt 300
gggagaatga tgacttaccc tgaagtcctt cccttgactg cccgcactgg ggcctgttct 360
gtgccctggg agcatnntgc ccagctaagt ggggttcagg cagtgggcag ctttcccaat 420
nantcgattt ccatnccagn gganttaaaa ccagttggcc aaatttccaa gnccttgnaa 480
ntaaggantc catttaccaa cccgcggttt tgtggtcagt gccccaaggg ggtaggttga 540
aggggggctta acaaacatgg aagtnggggg nanaagggat nan                   583
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<210> 810
<211> 272
<212> DNA
<213> Homo sapiens
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754

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<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (265)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<400> 810
tttttttttt tttttggacg ttaaaggcat ttnattccag cgncttctag agagcttagt 60
gtatacagat gagggtgtcc gctgctgctt tccttcggaa tccagtgctt ccacagagat 120
tancctgtan cttatatttg acattcttca ctgtctgttg ttnancnacc gtagcttttt 180
accgttcact tccccttcca actatgtcca gatgtgcagg ctcctccnct ctggactttc 240
tccaaaggca ctgaccctng gnctnnactt tg                            272

<210> 811
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c
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<400> 811
ggcagagnat aaaatcttaa agcactcata atatggcatc cttcaatttc tgtataaaag 60
cagatctttt taaaaagata cttctgtaac ttaagaaacc tgggcattta aatcatattt 120
tgtctttagg taaaagcttt ggtttgtgtt cgtgttttgt ttgtttcact tgtttccctc 180
ccagccccaa acctttgtt ctctccgtga acttaccttt ccctttttct ttctcttttt 240
tttttttgga anattaatng tttncaataa aatttncatn gccattaaaa aaaaaaaaaa 300

<210> 812
<211> 478
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (232)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (460)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 812
gccaccttac taccagacaa ccttagccaa accatttacc caaataaagt ataggcgata 60
gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa aattatagcc 120
aagcataata tagcaaggac taacccctat accttctgca taatgaatta actagaaata 180
actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc tnagaacagc 240
tgaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt tgangcgaca 300
aacctaccga gcctggtgat agctngttgt tccaanattg aatccttagt tccacttta 360
atttggcccc aaaaaccccc taattcccct tggttaattt taactgttng tcccaaaaaa 420
ggaaccngct ctttgggacc cttanggaaa aaaaccttgn ttaaaaanaa ttaaaaaa   478

<210> 813
<211> 63
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<400> 813
gccgcggtcc ttcagactgc ccggagagcg cgctctgcct gccgcctgnn tgnctgncnc 60
tga   63

```
<210> 814
<211> 73
<212> DNA
<213> Homo sapiens

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<222> (4)
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<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<400> 814
ggcngacatt cagactgagc gtgcctacca aaagtanncg accatctttc anaacaanaa 60
gagggtcctg ctg                                                  73

<210> 815
<211> 102
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<400> 815
gctgccgcct gcctgcctgc cactgaggnt tcccagcacc atgagggcct ggatcttctt 60
tctcctttgc ctggccggga gggccttggc ngnccctcan cn                    102

<210> 816
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<400> 816
gctccacgag ggttcagctg tctcttactt ttaaccagtg aaattgacct gcccgtgaag 60
aggcgggcat aacacagcaa gacgagaaga ccctatggag ctttaattta ttaatgcaaa 120
cagtacctaa caaacccaca ggtcctaaac taccaaacct gcattaaaaa tttcggttgg 180
```

760

```
ggcgacctcg gagcagaacc caacctccga gcagtacatg ctaagacttc accagtcaaa 240
gcgaactact atactcaatt gatccaataa cttgaccaac ggaacaagtt accctaggga 300
taacagcgca atcctattct agagtccata tcaacaatan ggtttacnac ctcgatgnnn 360
ggatcaggac attccaatg                                           379
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<210> 817
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
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<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (336)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (430)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
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763

<400> 817
tcgacccacg cgtccggcca cagccacagc caggctagcc tcgccggttc ccgggtggcg 60
cgcgttcgct gcctccttca gctccaggat gatcggccag aagacgctct actccttttt 120
ctccccagc cccgccaaga agcgacangg ccccaagncc cgagccggcc gtcaagggga 180
ccggngtggc tngggttgct naagaaagcg gaatncgggg ggcatcccag ccaagaangn 240
cccggctggg naggagaanc tngggaacgc cggcctcctt ggncgctgaa ttnccgaaca 300
ttttggaacc ggattccaga ggaacaaagg gcccgnggnc cttgnttaan aatncggggg 360
ccngnaaang ttnccccttg gggntttttg gaanaanaac ctgggaaaga aagcanctta 420
aggggggggn attttcgggg gaaancgtta tttttaatca aagctaaatt ggggattttn 480
tttncaaaaa ggaaaggaaa   500

<210> 818
<211> 329
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (209)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c
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<220>
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<222> (256)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<400> 818
cggtaccaat ttacacagga gacagctatg accatgatta cnccnagctc gnaattaacc 60
ctcactaatg ggaacanaag ctggagctcc accgngtagg cggncggtct agaactagtg 120
tgatcccccg ggctgcagga attcggcncg agaggaaana gaaaccgtct gaactatgct 180
gnnngccatc atnctnggcc tcatcgcnnt tccatcccta cgcatgcttt acatagcana 240
cgaggtgacg atgccnccct taccatcaag atcanttgnc caccaatggt acttgaacct 300
acgagtacac ccgaccaccn ggtggacta                                   329

<210> 819
<211> 648
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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766

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<222> (547)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (565)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (626)
<223> n equals a,t,g, or c


<400> 819
gcttaaattc ttttgaggat gggatgtatt tttcttgctg ttcagtgctt tttccttttc 60
atctgttgtt ctgtggtcac agtgacctta gctacatagc agactttccc aaatgtattg 120
attacaaata aacagttgtt acttagcaag acctgaaaat atgtctgcag gtttctcctt 180
gaagcaaatg tgtgggatca ttgcatttcc agaaatctgc ctccttcacc ctccgttgac 240
agtatatgtc atgcctcact ttcttctagc tgagctttaa atcattagag cttaaattgt 300
cagatcgttc attgcctttc cagggttatt tagtaaagtt tgttgaaaac aaaaacgcct 360
tttcttggnt ctttttcag ttattttgaa ggccagcatc ctgattaaat gctgacacat 420
taatgaatga ccagcaacag ctttcagctc ttaaaaagac acttatattt gaatttacat 480
gctgggtacc tgggtccaat ggtggcaaaa ggccactntt cattaaaagg ggtcctccat 540
ttcntanccc caaggacttc ctcanttttc aaattgggaa gggnacctaa aaggggtac 600
aattaaaacc ctggggtaaa ggggnaaaa aaaaaaaaa aaaaaaa           648


<210> 820
<211> 469
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<400> 820
gccactccac cttactacca gacaacctta gccaaaccat ttacccaaat aaagtatagg 60
cgatagaaat tgaaacctgg cgcaatagat atagtaccgc aagggaaaga tgaaaaatta 120
taaccaagca taatatagca aggactaacc cctatacctt ctgcataatg aattaactag 180
aaataacttt gcaaggagag ccaaagctaa aacccccaat aaaccttgaa cagtgaanaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacctcgag gtcnacggta tcnataacct 300
tgatatcnaa ttcggcacna gcaaccctca ttccccaacc cacgccggag gctgcgcctg 360
caggacctgn ctgaccgatt ggtggatcct ctgaanatga acacgactca ccactgctca 420
ncgaggcntg cttgagcaaa atccgccaat tataaaaaaa aaacnctcc           469

<210> 821
<211> 432
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 821
ggcacgagag aaactgtgtg tgaggggaag aggcctgttt cgctgtcggg tctctagttc 60
ttgcacgctc tttaagagtc tgcactggag gaactctgcc attaccagct cccttgttgc 120
agaaggaagg ggaaacatac atttattcat gccagtctgt tgcatgcagg ctttttggct 180
tcctaccttg caacaaaata attgcaccaa ctccttagtg ccgattccgc ccacagagag 240
tcctggagcc acagtctttt ttgctttgca ttgtaaggag agggactaaa gtgctagaga 300
ctatgtcgct ttcctgagct aacgagagcg ctcgtgaact ggantcaact gctttcaggg 360
aaaaagaaaa aaaaaaaaaa aaaanccggg ggggggcccg gtaacccatt tcccccctana 420
gnggnggggt tt   432

<210> 822
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

<220>
<221> misc feature

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<222> (382)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c


<400> 822
aagtctcttc agtgcactcg ctccctctct ggctaaggca tgcattagcc actacacaag 60
tcattagtga aagtggtctt ttatgtcctc ccagcagaca gacatcaagg atgagttaac 120
caggagacta ctcctgtgga ctgtggagct ctggaaggct tggtgggagt gaatttgccc 180
acaccttaca attgtggcag gatccagaag agcctgtctt tttatatcca ttccttggat 240
gtcattgggc ctctcccacc gatttcatta cggtgccacg catccatggg atctggggta 300
gtccggaaaa acaaaaggag ggnagacagc ctggtaatgg ataagatcct taccacagtt 360
ttcccanggg gaatacctta tnaanccttc aacttttttt tttcccttaa gaattaaaac 420
ggggnana                                                       428


<210> 823
<211> 100
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (71)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<400> 823
ctcagctcct gggggctcct gctactctgg gntcccgagg gtgccaaaat gtgncatcca 60
agntgacccca ntctccgncc ctccctgtct gcagctggta   100

<210> 824
<211> 173
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<400> 824
cggacgcgtg ggcggacgcg tgggcggacg cgtgggccga gaaccacagg tgtacaccct 60
gcccccatcc cgggaggana tgaccaagaa acagtcagct gaactgcctg nttctanagg 120
tttctatccc acgaaatccc cttgaattgg gaaacnattg ggcanccgaa aaa   173

<210> 825
<211> 341
<212> DNA
<213> Homo sapiens

771

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<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<400> 825
cccaaaccca ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag 60
tataggcgat agaaattgaa acctggcgca atagatatag taccgcaagg ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaacccct ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agaacgagct 240
accttagaac agcttaaaga gcacacccct ctatttttgc canaatagtg ggaaagattt 300
ataggttgaa ggnaacnaac ctaccgagcc tggtnaatnc t                   341

<210> 826
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<400> 826
gcaaacccac tccaccttac taccagacaa ccttagccaa accatttacc caaataaagt 60
ataggcgata gaaattgaaa cctggcgcaa tagatatagt accgcaaggg aaagatgaaa 120
aattataacc aagcataata tagcaaggac taacccctat accttctgca taatgaatta 180
actagaaata actttgcaag gagagccaaa gctaagaccc ccgaaaccag acgagctacc 240
taagaacagc taaaagagca cacccgtcta tgtagcaaaa tagtgggaag atttataggt 300
agaggcgaca aacctaccga gcctggtgat agctggntgt ccaagataga atcttagttc 360
aactttaaat ttgcccacag aaccctctaa atccccttgt aaatttaact gttagnccaa 420
agaggaacaa gctctttgga cactangaaa aaaccttgta tagagaggaa naaanatttn 480
acaacccata ct   492

<210> 827
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<400> 827
ggtcgtgctc tcccgggccg ggtccgagcc gcgacgggcg aggggcggac gttcgtggng 60
aacgggaccg tccttctcgc tccgccccgc gggggtcccc tcgtctctcc tctccccgcc 120
cgccggcggt gcgtgtggga aggcgtgggg tgcggacccc ggcccgacct cgccgtcccg 180
cccgccgcct tctgcgtcgc gggtgcgggc cggcggggtc ctctgacgcn gcagacagcc 240
ctcgctgtcn cctccagtgg angncgactt gcgggcggta ctcctacgan   290

<210> 828
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature

774

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<222> (405)
<223> n equals a,t,g, or c

<400> 828
gggtcgaccc acgcgtccgg cagcacggaa aaagaaggtc tcctccacga agcgacactg 60
agcgtgcacc aagggcttgg tctgcggggg ccttggagct cctgctcttc tcccgcacct 120
ccatggatgc actgctgccg agcagagcng cctctgccag gccccgccct gggattccta 180
gagactagct tcagttttgc tatttttttt aagtgggaga agggtgggca gttatcactg 240
gggaagagag gaccggccac ctgtccagca tgggctccag agccttcctc tctcacaggg 300
cagagtcttg tcggcaaggc agcctcctgg ccantttctc tgctcatgtt tctggttagc 360
agagttcaga gccaattgtt tnacttcttg gttgtncccg tgnangaagc ctttcaaaac 420


<210> 829
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,·t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<400> 829
ttcagaaaaa acaatagtnn tgtgcctctn tcttctcaaa caatggatga cacaanncta 60
tggagagtga caaaatggtg acaggtagct ggggacctag gctatctcnc catgaaggtt 120
gttcngctna ttgtatatct gtgtatgtag tgtaactata ttgtacaatg ngaagactgt 180
naactactat ntagggttgt tgcagattga aatttagttg tctcattggc tgtctgagga 240

```
agtgtggact tctatatata gatctannnt gaaaactgct ncatgantga aaaccaca   298
```

<210> 830
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (513)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (515)
<223> n equals a,t,g, or c


<400> 830
ncggnaactn ctcactatag ntgaaagctg gtacncctgc aggtaccggt ccggaattcc 60
cgggggcatc cccttgtccc caagagaccc gacgcttgct tcatggccta cacgttcgag 120
agagagtctt cgggagagga ggaggagtag ggccgcctcg gggctgggca tccggcccct 180
ggggccaccc cttgtcagcc gggtgggtag gaaccgtaga ctcgctcatc tcgcctgggt 240
ttgtccgcat gttgtaatcg tgcaaataaa cgctcactcc gaattagcgg tgtatttctt 300
gaagtttaat attgtgtttg tgatactgaa gtatttgctt taattctaaa taaaaattta 360
tattttactt ttttattgct ggtttaagat gattcagatt atccttgnac tttgaggaga 420
agtttcttat ttggagcttt tggaaacagc ttaagctttt aacttggaaa gatangnatt 480
aatccccttc attggtntcc aaaagccaat aangng                          516


<210> 831
<211> 636
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c


<400> 831
ggaaaaaaat gagttccatt taaaattttg gcatatggca ttttctaact taggaagcca 60
caatgttctt ggcccatcat gacattgggt agcattaact gtaagttttg tgcttccaaa 120
tcactttttg gtttttaaga atttcttgat actcttatag cctgccttca attttgatcc 180
```

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tttattcttt ctatttgtca ggtgcacaag attaccttcc tgttttagcc ttctgtcttg 240
tcaccaacca ttcttacttg gtggccatgt acttggaaaa aggccgcatg atctttctgg 300
ctccactcag tgtctaaggc accctgcttc ctttgcttgc atcccacaga ctatttccct 360
catcctattt actgcagcaa atctctcctt agttgatgag actgtgttta tctnccttta 420
aaaccctacc tatcctgaat ggtctgtcat tgnctgcctt taaaatcctt cctctttctt 480
cctcctctat tctctaaata atgatggggc ttaagttata cccaaagctn actttacaaa 540
atatttcctc aagactttgc agaaacacca acaaaatgcc atttaaaaaa ggggatttttc 600
tttaaaggaa ctctaanaca ggcaaggttc tgatgt                           636
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<210> 832
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<400> 832
gatcagatta tgagttactg tttaaaagaa aaatgctgtt tattcatgct gaggtgattc 60
agttccctcc ttcttacaga agtattttaa ttcaccccac actagaaatg cagcatctttt 120
gtggacgtct ttttcacaag cctccaaggc tccttagatt gggtcgttac taaaagtaca 180
ttaaaacact cttgtttatc gaagtatatt gatgtattct aaagctagta aacttcccta 240
acgtttaatt gccctacaga tgcttctctt gctgtgggtt ttcttttgtt agtggtctga 300
aataattatt ttcctgttct attaatacat aagtgtattt tgcacaaaaa aattaacctg 360
gtcaaatagt gattaccaaa atatatatta ataatcttgg gcaaattttt gccatttata 420
ngaaaacatt tttaacccac ggntangttc tanatttatt ctttcn                466
```

```
<210> 833
<211> 405
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```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<400> 833
ttttaattca acccagccat gcaatgccaa ataatagaat tgctccctac cagctgaaca 60
gggaggagtc tgtgcagttt ctgacacttg ttgttgaaca tggctaaata caatgggtat 120
cgctgagact aagttgtaaa aaattaacaa atgtgctgct tggttaaaat ggctacactc 180
atctgactca ttctttattc tattttagtt ggtttgtatc ttgcctaagg tgcgtantcc 240
aactcttggt attaccctcc taatagtcat actagtantc atactccctg gtgttatgta 300
ttctctaaaa gctttaaatg tctgcattgc aaccngccat caaatattga atgggctctc 360
ttttggctgg aattacaaac tcaaaaaatg tttctcagga aaaaa              405

<210> 834
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<400> 834
gcaaacccac aggtcctaaa ctaccaaacc tgcattaaaa atttcggttg gggcgacctc 60
ggagcagaac ccaacctccg agcagtacat gctaagactt caccagtcaa agcgaactac 120
tatactcaat tgatccaata acttgaccaa cggaacaagt taccctaggg ataacagcgc 180
aatcctattc tagagtccat atcaacaata gggtttacga cctcgatgtt ggatcaggac 240
atcccgatgg tgcagccgct attaaaggtt cgtttgntca acgattaaag tcctacgtga 300
tctgagttca gaccggagta atccaggtcg gnttctatct acttcaaatt cctncctgna 360
cgaaaggaca agagaaataa gggctacttn acaaagcgcn tt                   402

<210> 835
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
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781

```
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<400> 835
nttnaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaan aaaaaaaaaa aaaaaaaaaa 60
aaaaagggcg gccgttntaa aggatccaag cttacgtacn cgtgcatgcn acgtcanagc 120
t                                                                  121

<210> 836
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<400> 836
agtaagcctg ccagacacgc tgtggcggct gcctgaagct agtgagtcgc ggcgccgcgc 60
acttgtggtt gggtcagtgc cgcgcgccgc tcggtcgtta ccgcgaggcg ctggtggcct 120
tcaggctgga cggcgcgggt cagccctggt ttgccggctt ctgggtcttt gaacagccgc 180
gatgtcgatc ttcacccccca ccaaccagat ccgcctaacc aatgtggccg tggtacggat 240
gaagcgcgcc aggaagcgct tcgaaatcgc ttgctacaga aacagtcgt cggctggcgg 300
agggctttgg aaaaagactt gatgaatttt gcagacccan caangtttgt aaagttncca 360
```

```
aagtcagttt ccaaaaggaa attcancagg ggtttggaaa atgccaanga a          411
```

<210> 837
<211> 386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<400> 837
```
gcggcagctc agcaagtggt ggaccaggcc acagaggcgg ggcagaaagc catggaccag 60
ctggccaaga ccacccagga aaccatcgac aagactgcta accaggcctc tgacaccttc 120
tctgggatcg ggaaaaaatt cggcctcctg aaatgacagc agggagactt gggtcggcct 180
cctgaaatga tagcagggag acttgggtga cccccccttcc aggcgccatc tagcacagcc 240
tggccctgat ctccgggcag ccaccacctc ctcggtctgc ccctcatta aaattcacgt 300
tcccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa ngnnnn                                      386
```

<210> 838
<211> 124
<212> DNA
<213> Homo sapiens

<400> 838
```
gctttcaata gatcgcagcg agggagctgc tctgctacgt acgaaacccc gacccagaag 60
caggtcgtct acgaatggtt tagcgccagg ttccccacga acgtgcggtg cgtgacgggc 120
gagg                                                             124
```

```
<210> 839
<211> 270
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<400> 839
```

```
atctggttgt ggttacaatg aaaatnagaa gcattattga tggattcgca taagcncaat 60
gtgatgtcct gcgccgttct gccccctctc ccttccaggg tgagggnctg gggtgagggt 120
taatgttcgn accagtgctg gctgttcccc tcaccctaac cctctcccca aaggncgnag 180
gggcccggtt acccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt 240
tacaagacgn agggaggagn ntgatgaaaa                                    270
```

<210> 840
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

```
<400> 840
ctctacatca ccgccccgac cttagctctc accatcgctc ttctactatg aaccccccctc 60
cccatacccca accccctggt caacctcaac ctaggcctcc tatttattct agccacctct 120
agcctagccg tttactcaat cctctgatca gggtgagcat caaactcaaa ctacgccctg 180
atcggcgcac tgcgagcagt agcccaaacn atctcatatg aagtcaccct agccatcatt 240
cctactatca acattactaa tnngttggct cctttaacct ctccacccctt atcacaacac 300
aagaacactc ctgaatatcc tgccatcata acccttttggc catatatnat tatcttccac 360
actagggana acaacgaacc cccttcgaan cttgngaaag ggaatttcna ataatcttca 420
ggttcaaatt                                                        430


<210> 841
<211> 650
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c

<400> 841
gccgtcatct actctaccat ctttgcaggc acactcatca cagcgctaag ctcgcactga 60
ttttttacct gagtaggcct agaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctcgttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc tatcctcttc aacaatatac tctccggaca atgaaccata 240
accaataata ccaatcaata ctcatcatta ataatcataa tggctatagc aataaaacta 300
```

```
ggaatagccc cctttcactt ctgagtccca gaggttaccc aaggcacccc tctgacatcc 360
ggcctgcttc ttctcacatg acaaaaacta gcccccatct caatcatata ccaaatctct 420
ccctcactag acgtaagcct tctcctcact ctctcaatct tatccatcat agtaggcagt 480
tgagggtgga ttaaaccaaa acccagctac gcaaaatcnt agcatacttc ctcaattacc 540
cacataggat gaatnaatag cagnttctac cgnacaaccc ttacataanc atttcttaaa 600
ttaactaatt atattaatcc taactactac ggantctact actaacttaa          650
```

```
<210> 842
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<400> 842
gcctgtgtct gctaaaaaag aaaagaaagt ttcctgcatg ttcattcctg atgggcgggt 60
gtctgtctct gctcgaattg acagaaaagg attctgtgaa ggtgatgaga tttccatcca 120
tgctgacttt gagaatacat gttcccgaat tgtggtcccc aaagctgcca ttgtggcccg 180
ccacacttac cttgccaatg gccagaccaa ggtgctgact cagaagttgt catcagtcag 240
aggcaatcat attatctcag ggacatgcgc atcatggcgt ggcaagagcc ttcgggttca 300
gaagatcagg ccttctatcc tgggctgcaa catccttcga gttgaatatt ccttactgat 360
ctatgttagc gttcctggat ccaagaaggt catccttgac ctgcccctgg taattggcag 420
cagatcaggt ctaagcanca gaacatccag ctggncagcc cnaaccanct ctgaagatga 480
gntgggtaga tctgaacatc ctgataccc                                   509
```

```
<210> 843
<211> 158
<212> PRT
```

<213> Homo sapiens

<400> 843
Lys Arg Asp Trp Val Ile Pro Pro Ile Ser Cys Pro Glu Asn Glu Lys
  1   5   10   15

Gly Pro Phe Pro Lys Asn Leu Val Gln Ile Lys Ser Asn Lys Asp Lys
            20   25   30

Glu Gly Lys Val Phe Tyr Ser Ile Thr Gly Gln Gly Ala Asp Thr Pro
            35   40   45

Pro Val Gly Val Phe Ile Ile Glu Arg Glu Thr Gly Trp Leu Lys Val
        50   55   60

Thr Glu Pro Leu Asp Arg Glu Arg Ile Ala Thr Tyr Thr Leu Phe Ser
 65   70   75   80

His Ala Val Ser Ser Asn Gly Asn Ala Val Glu Asp Pro Met Glu Ile
                85   90   95

Leu Ile Thr Val Thr Asp Gln Asn Asp Asn Lys Pro Glu Phe Thr Gln
            100   105   110

Glu Val Phe Lys Gly Ser Val Met Glu Gly Ala Leu Pro Gly Thr Ser
            115   120   125

Val Met Glu Val Thr Ala Thr Asp Ala Asp Asp Gly Cys Gly Thr Pro
        130   135   140

Thr Met Pro Pro Ser Leu Thr Pro Ser Ser Ala Gln Asp Pro
145   150   155

<210> 844
<211> 601
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (358)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (383)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 844
Thr Glu Leu Leu Lys Ser Ala Ala Arg His Gly Thr Ala Glu Ser Ala
 1               5                  10                  15

Pro Trp Pro Arg Gly Gln Gly Trp Gln Gln Trp Gln Gln Gln Trp Arg
            20                  25                  30

Arg Arg Trp Xaa Ser Trp Arg Lys Asp Arg Ala Arg Thr Arg Arg Gln
         35                  40                  45

Glu Glu Leu Ala Leu Ser Gln Glu Pro Lys Ser Ser Ser Arg Gly Xaa
    50                  55                  60

Ser Pro Gly Ala Ser Pro Ala Ser Pro Thr Ser Gln Gln Phe Cys Cys
65                  70                  75                  80

Phe Arg Leu Asp Gln Val Ile His Ser Asn Pro Ala Gly Ile Gln Gln
            85                  90                  95

Ala Leu Ala Gln Leu Ser Xaa Arg Gln Xaa Ser Val Thr Ala Pro Gly
            100                 105                 110

Gly His Pro Arg His Lys Pro Gly Pro Pro Gln Ala Pro Gln Gly Pro
            115                 120                 125

Ser Pro Arg Pro Pro Thr Arg Tyr Glu Pro Gln Arg Val Asn Ser Gly
130                 135                 140
```

```
Leu Ser Ser Asp Pro His Phe Xaa Glu Pro Gly Pro Met Val Arg Gly
145             150             155             160

Val Gly Gly Thr Pro Arg Asp Ser Ala Gly Val Ser Pro Phe Pro Pro
            165             170             175

Lys Arg Arg Glu Arg Pro Pro Arg Lys Pro Glu Leu Leu Gln Glu Glu
        180         ·       185             190

Ser Leu Pro Pro Pro His Ser Ser Gly Phe Leu Gly Ser Lys Pro Glu
        195             200             205

Gly Pro Gly Pro Gln Ala Glu Ser Arg Asp Thr Gly Thr Glu Ala Leu
    210             215             220

Thr Pro His Ile Trp Asn Arg Leu His Thr Ala Thr Ser Arg Lys Ser
225             230             235             240

Tyr Arg Pro Ser Ser Met Glu Pro Trp Met Glu Pro Leu Ser Pro Phe
            245             250             255  ·

Glu Asp Val Ala Gly Thr Glu Met Ser Gln Ser Asp Ser Gly Val Asp
            260             265             270

Leu Ser Gly Asp Ser Gln Val Ser Ser Gly Pro Cys Ser Gln Arg Ser
        275             280             285

Ser Pro Asp Gly Gly Leu Lys Gly Ala Ala Glu Gly Pro Pro Lys Arg
    290             295             300

Pro Gly Gly Ser Ser Pro Leu Asn Ala Val Pro Cys Glu Gly Pro Pro
305             310             315             320

Gly Ser Glu Pro Pro Arg Arg Pro Pro Pro Ala Pro His Asp Gly Asp
            325             330             335

Arg Lys Glu Leu Pro Arg Glu Gln Pro Leu Pro Pro Gly Pro Ile Gly
        340             345             350

Thr Glu Arg Ser Gln Xaa Thr Asp Arg Gly Thr Glu Pro Gly Pro Ile
        355             360             365

Arg Pro Ser His Arg Pro Gly Pro Pro Val Gln Phe Gly Thr Xaa Asp
    370             375             380

Lys Asp Ser Asp Leu Arg Leu Val Val Gly Asp Ser Leu Lys Ala Glu
385             390             395             400

Lys Glu Leu Thr Ala Ser Val Thr Glu Ala Ile Pro Val Ser Arg Asp
            405             410             415
```

```
Trp Glu Leu Leu Pro Ser Ala Ala Ala Ser Ala Glu Pro Gln Ser Lys
        420             425             430

Asn Leu Asp Ser Gly His Cys Val Pro Glu Pro Ser Ser Ser Gly Gln
        435             440             445

Arg Leu Tyr Pro Glu Val Phe Tyr Gly Ser Ala Gly Pro Ser Ser Ser
    450             455             460

Gln Ile Ser Gly Gly Ala Met Asp Ser Gln Leu His Pro Asn Ser Gly
465             470             475             480

Gly Phe Arg Pro Gly Thr Pro Ser Leu His Pro Tyr Arg Ser Gln Pro
            485             490             495

Leu Tyr Leu Pro Pro Gly Pro Ala Pro Pro Ser Ala Leu Leu Ser Gly
            500             505             510

Val Ala Leu Lys Gly Gln Phe Leu Asp Phe Ser Thr Met Gln Ala Thr
        515             520             525

Glu Leu Gly Lys Leu Pro Ala Gly Gly Val Leu Tyr Pro Pro Pro Ser
    530             535             540

Phe Leu Tyr Ser Pro Ala Phe Cys Pro Ser Pro Leu Pro Asp Thr Ser
545             550             555             560

Leu Leu Gln Val Arg Gln Asp Leu Pro Ser Pro Ser Asp Phe Tyr Ser
            565             570             575

Thr Pro Leu Gln Pro Gly Gly Gln Ser Gly Phe Leu Pro Ser Gly Ala
            580             585             590

Pro Ala Ser Arg Cys Phe Tyr Pro Trp
        595             600
```

```
<210> 845
<211> 67
<212> PRT
<213> Homo sapiens

<400> 845
Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
  1           5               10              15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
            20              25              30
```

```
Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
        35                40                45

Val Glu Glu Ala Met Lys Leu Ile Thr Gly Thr Glu Ala Lys Tyr Lys
      50                55                60

Ser Ile Asp
  65
```

```
<210> 846
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 846
Ser Gln Gly Pro Asp His Pro Ser Ser Gln Leu Gln Pro Leu Asn Xaa
  1                5                10                15

Ser Leu Ser His Leu Leu Val Pro Cys Leu Ser Ile Met Ser Leu Leu
              20                25                30

Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu Gln Lys Arg Glu
        35                40                45

Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu Thr Gln Ser Val
      50                55                60

Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn Asn Lys Lys Leu
  65                70                75                80

Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn Met Val Leu Glu
              85                90                95

Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser Gly Lys Gly Lys
            100               105               110

Lys Lys Ser Lys Pro Val Asn Lys Asp Arg Tyr Ile Ser Lys Met Phe
            115               120               125

Leu Arg Gly Asp Ser Val Ile Val Val Leu Arg Asn Pro Leu Ile Ala
      130               135               140

Gly Lys
145
```

```
<210> 847
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 847
Ala Arg Met Ala Ala Asp Lys Xaa Pro Ala Ala Gly Pro Arg Ser Arg
 1               5                  10                  15

Ala Ala Met Ala Gln Trp Arg Lys Lys Lys Gly Leu Arg Lys Arg Arg
            20                  25                  30

Gly Ala Ala Ser Gln Ala Arg Gly Ser Asn Ser Glu Asp Gly Glu Phe
         35                  40                  45

Glu Ile Gln Ala Glu Asp Asp Ala Arg Ala Arg Lys Leu Gly Pro Gly
      50                  55                  60

Arg Pro Leu Pro Thr Phe Pro Thr Ser Glu Cys Thr Ser Asp Val Glu
 65               70                  75                  80

Pro Asp Thr Arg Glu Met Val Arg Ala Gln Asn Lys Lys Lys Lys Lys
            85                  90                  95

Ser Gly Gly Phe Gln Ser Met Gly Leu Ser Tyr Pro Val Phe Lys Gly
            100                 105                 110

Ile Met Lys Lys Gly Tyr Lys Val Pro Thr Pro Ile Gln Arg Lys Thr
         115                 120                 125

Ile Pro Val Ile Leu Asp Gly Lys Asp Val Val Ala Met Ala Arg Thr
      130                 135                 140

Gly Ser Gly Lys Thr Ala Cys Phe Leu Leu Pro Met Phe Glu Arg Leu
145                 150                 155                 160

Lys Thr His Ser Ala Gln Thr Gly Ala Arg Ala Ser Ser Ser Arg Arg
            165                 170                 175
```

```
Pro Glu Xaa Trp Pro Cys Arg Pro
            180


<210> 848
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 848
Ala Arg Ala Ser Ser Glu Cys Ala Arg Cys Ala Ala Ala Val Arg Thr
 1               5              10              15

Cys Arg Arg Arg His Arg His His Ala Gln Leu Arg Arg His Leu Glu
            20              25              30

Asp Ala Xaa Ser Glu Asn Phe Asp Glu Leu Leu Lys Ala Leu Gly Val
         35              40              45

Asn Ala Met Leu Arg Lys Val Ala Val Ala Ala Ala Ser Lys Pro His
      50              55              60

Val Glu Ile Arg Gln Asp Gly Asp Gln Phe Tyr Ile Lys Thr Ser Thr
 65              70              75              80

Thr Val Arg Thr Thr Glu Ile Asn Phe Lys Val Gly Glu Gly Phe Glu
               85              90              95

Glu Glu Thr Val Asp Gly Arg Lys Cys Arg Ser Leu Ala Thr Trp Glu
            100             105             110

Asn Glu Asn Lys Ile His Cys Thr Gln Thr Leu Leu Glu Gly Asp Gly
         115             120             125

Pro Lys Thr Tyr Trp Thr Arg Glu Leu Ala Asn Asp Glu Leu Ile Leu
      130             135             140

Thr Phe Gly Ala Asp Asp Val Val Cys Thr Arg Ile Tyr Val Arg Glu
145             150             155             160
```

794

```
<210> 849
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 849
Val Gln Asn Val Gly Tyr Gln Ser Lys His Cys Gly Ala Val Xaa Tyr
 1               5                  10                  15


Ala Arg Leu Pro Cys Glu Met Ile Gln Asp Gln Asn Lys Ala Leu Asp
            20                  25                  30


Cys Ser Lys Thr Gln Asn Ser Ser Arg Ala Glu Gly Gly Arg Leu Ile
            35                  40                  45


Trp Xaa Glu Gly Pro Lys Tyr Lys Thr Asp Gly Leu Arg Leu Glu Thr
        50                  55                  60


Arg Gly Leu Arg Trp Lys Ala His Val Pro Arg
 65                  70                  75



<210> 850
<211> 383
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 850
Ser Thr His Ala Ser Ala His Ala Ser Val Ala Asn Glu Val Ile Lys
 1               5                  10                  15


Cys Lys Ala Ala Val Ala Trp Glu Ala Gly Lys Pro Leu Ser Ile Glu
            20                  25                  30
```

```
Glu Ile Glu Val Ala Pro Pro Lys Ala His Glu Val Arg Ile Lys Ile
        35                  40                  45

Ile Ala Thr Ala Val Cys His Thr Asp Ala Tyr Thr Leu Ser Gly Ala
        50                  55                  60

Asp Pro Glu Gly Cys Phe Pro Val Ile Leu Gly His Glu Gly Ala Gly
65                  70                  75                  80

Ile Val Glu Ser Val Gly Glu Gly Val Thr Lys Leu Lys Ala Gly Asp
                85                  90                  95

Thr Val Ile Pro Leu Tyr Ile Pro Gln Cys Gly Glu Cys Lys Phe Cys
            100                 105                 110

Leu Asn Pro Lys Thr Asn Leu Cys Gln Lys Ile Arg Val Thr Gln Gly
        115                 120                 125

Lys Gly Leu Met Pro Asp Gly Thr Ser Arg Phe Thr Cys Lys Gly Lys
    130                 135                 140

Thr Ile Leu His Tyr Met Gly Thr Ser Thr Phe Ser Glu Tyr Thr Val
145                 150                 155                 160

Val Ala Asp Ile Ser Val Ala Lys Ile Asp Pro Leu Ala Pro Leu Asp
                165                 170                 175

Lys Val Cys Leu Leu Gly Cys Gly Ile Ser Thr Gly Tyr Gly Ala Ala
            180                 185                 190

Val Asn Thr Ala Lys Leu Glu Pro Gly Ser Val Cys Ala Val Phe Gly
        195                 200                 205

Leu Gly Gly Val Gly Leu Ala Val Ile Met Gly Cys Lys Val Ala Gly
    210                 215                 220

Ala Ser Arg Ile Ile Gly Val Asp Ile Asn Lys Asp Lys Phe Ala Arg
225                 230                 235                 240

Ala Lys Glu Phe Gly Ala Thr Glu Cys Ile Asn Pro Gln Asp Phe Ser
                245                 250                 255

Lys Pro Ile Gln Glu Val Leu Ile Glu Met Thr Asp Gly Gly Val Asp
            260                 265                 270

Tyr Ser Phe Glu Cys Ile Gly Asn Val Lys Val Met Arg Ala Ala Leu
        275                 280                 285

Glu Ala Cys His Lys Gly Trp Gly Val Thr Xaa Val Val Gly Val Ala
    290                 295                 300
```

```
Ala Ser Gly Glu Glu Ile Ala Thr Arg Pro Phe Gln Leu Val Thr Gly
305                 310             315                 320

Arg Thr Trp Lys Gly Thr Ala Phe Gly Gly Trp Lys Ser Val Glu Ser
                325             330             335

Val Pro Lys Leu Val Ser Glu Tyr Met Ser Lys Lys Ile Lys Val Asp
            340             345             350

Glu Phe Val Thr His Asn Leu Ser Phe Asp Glu Ile Asn Lys Ala Phe
        355             360             365

Glu Leu Met His Ser Gly Lys Ser Ile Arg Thr Val Val Lys Ile
    370             375             380
```

<210> 851
<211> 154
<212> PRT
<213> Homo sapiens

<400> 851
```
Ala Arg Ala Pro Arg Ala Thr Leu Asn Gly Pro Gly Ala Arg Gly Arg
  1               5               10              15

Val Gly Val Val Val Leu Arg Pro Arg Pro Arg Gly Leu Arg Phe Pro
            20              25              30

Trp Cys Pro Gly Arg Pro Ala Ser Gly Ala Val Ser Tyr Glu Ser Ala
        35              40              45

His Ala Ala Ser Val Arg Leu Thr Leu Arg Thr Met Glu Gly Gly Phe
    50              55              60

Gly Ser Asp Phe Gly Gly Ser Gly Ser Gly Lys Leu Asp Pro Gly Leu
65              70              75              80

Ile Met Glu Gln Val Lys Val Gln Ile Ala Val Ala Asn Ala Gln Glu
                85              90              95

Leu Leu Gln Arg Met Thr Asp Lys Cys Phe Arg Lys Cys Ile Gly Lys
            100             105             110

Pro Gly Gly Ser Leu Asp Asn Ser Glu Gln Lys Cys Ile Ala Met Cys
        115             120             125

Met Asp Arg Tyr Met Asp Ala Trp Asn Thr Val Ser Arg Ala Tyr Asn
    130             135             140

Ser Arg Leu Gln Arg Glu Arg Ala Asn Met
```

145   150

<210> 852
<211> 396
<212> PRT
<213> Homo sapiens

<400> 852
Asp Ser Arg Val Asp Pro Arg Val Arg Ala Ile Ile Ala Lys Thr Phe
 1   5   10   15

Lys Gly Arg Gly Ile Thr Gly Val Glu Asp Lys Glu Ser Trp His Gly
            20   25   30

Lys Pro Leu Pro Lys Asn Met Ala Glu Gln Ile Ile Gln Glu Ile Tyr
         35   40   45

Ser Gln Ile Gln Ser Lys Lys Lys Ile Leu Ala Thr Pro Pro Gln Glu
      50   55   60

Asp Ala Pro Ser Val Asp Ile Ala Asn Ile Arg Met Pro Ser Leu Pro
65   70   75   80

Ser Tyr Lys Val Gly Asp Lys Ile Ala Thr Arg Lys Ala Tyr Gly Gln
               85   90   95

Ala Leu Ala Lys Leu Gly His Ala Ser Asp Arg Ile Ile Ala Leu Asp
            100   105   110

Gly Asp Thr Lys Asn Ser Thr Phe Ser Glu Ile Phe Lys Lys Glu His
         115   120   125

Pro Asp Arg Phe Ile Glu Cys Tyr Ile Ala Glu Gln Asn Met Val Ser
      130   135   140

Ile Ala Val Gly Cys Ala Thr Arg Asn Arg Thr Val Pro Phe Cys Ser
145   150   155   160

Thr Phe Ala Ala Phe Phe Thr Arg Ala Phe Asp Gln Ile Arg Met Ala
               165   170   175

Ala Ile Ser Glu Ser Asn Ile Asn Leu Cys Gly Ser His Cys Gly Val
            180   185   190

Ser Ile Gly Glu Asp Gly Pro Ser Gln Met Ala Leu Glu Asp Leu Ala
         195   200   205

Met Phe Arg Ser Val Pro Thr Ser Thr Val Phe Tyr Pro Ser Asp Gly
      210   215   220

```
Val Ala Thr Glu Lys Ala Val Glu Leu Ala Ala Asn Thr Lys Gly Ile
225                 230                 235                 240

Cys Phe Ile Arg Thr Ser Arg Pro Glu Asn Ala Ile Ile Tyr Asn Asn
                245                 250                 255

Asn Glu Asp Phe Gln Val Gly Gln Ala Lys Val Val Leu Lys Ser Lys
            260                 265                 270

Asp Asp Gln Val Thr Val Ile Gly Ala Gly Val Thr Leu His Glu Ala
            275                 280                 285

Leu Ala Ala Ala Glu Leu Leu Lys Lys Glu Lys Ile Asn Ile Arg Val
    290                 295                 300

Leu Asp Pro Phe Thr Ile Lys Pro Leu Asp Arg Lys Leu Ile Leu Asp
305                 310                 315                 320

Ser Ala Arg Ala Thr Lys Gly Arg Ile Leu Thr Val Glu Asp His Tyr
                325                 330                 335

Tyr Glu Gly Gly Ile Gly Glu Ala Val Ser Ser Ala Val Val Gly Glu
            340                 345                 350

Pro Gly Ile Thr Val Thr His Leu Ala Val Asn Arg Val Pro Arg Ser
            355                 360                 365

Gly Lys Pro Ala Glu Leu Leu Lys Met Phe Gly Ile Asp Arg Asp Ala
    370                 375                 380

Ile Ala Gln Ala Val Arg Gly Leu Ile Thr Lys Ala
385                 390                 395
```

```
<210> 853
<211> 302
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 853
Ser Arg Leu Gly Leu Gln Ser Cys Gly Leu Ser Thr Gln Ala Ile Thr
    1               5                   10                  15

Leu Ser Glu Thr Ala Ala Ala Leu Asp Cys Ser Leu Pro Arg Leu His
```

```
                  20                    25                    30

    Ala Arg Gln Ser Met Arg Val Thr Leu Ala Thr Ile Ala Trp Met Val
            35                    40                    45

    Ser Phe Val Ser Asn Tyr Ser His Thr Ala Asn Ile Leu Pro Asp Ile
        50                    55                    60

    Glu Asn Glu Asp Phe Ile Lys Asp Cys Val Arg Ile His Asn Lys Phe
    65                    70                    75                    80

    Arg Ser Glu Val Lys Pro Thr Ala Ser Asp Met Leu Tyr Met Thr Trp
                    85                    90                    95

    Asp Pro Ala Leu Ala Gln Ile Ala Lys Ala Trp Ala Ser Asn Cys Gln
                    100                   105                   110

    Phe Ser His Asn Thr Arg Leu Lys Pro Pro His Lys Leu His Pro Asn
            115                   120                   125

    Phe Thr Ser Leu Gly Glu Asn Ile Trp Thr Gly Ser Val Pro Ile Phe
        130                   135                   140

    Ser Val Ser Ser Ala Ile Thr Asn Trp Tyr Asp Glu Ile Gln Asp Tyr
    145                   150                   155                   160

    Asp Phe Lys Thr Arg Ile Cys Lys Lys Val Cys Gly His Tyr Thr Gln
                    165                   170                   175

    Val Val Trp Ala Asp Ser Tyr Lys Val Gly Cys Ala Val Gln Phe Cys
                    180                   185                   190

    Pro Lys Val Ser Gly Phe Asp Ala Leu Ser Asn Gly Ala His Phe Ile
            195                   200                   205

    Cys Asn Tyr Gly Pro Gly Gly Asn Tyr Pro Thr Trp Pro Tyr Lys Arg
        210                   215                   220

    Gly Ala Thr Xaa Ser Ala Cys Pro Asn Asn Asp Lys Cys Leu Asp Asn
    225                   230                   235                   240

    Leu Cys Val Asn Arg Gln Arg Asp Gln Val Lys Arg Tyr Tyr Ser Val
                    245                   250                   255

    Val Tyr Pro Gly Trp Pro Ile Tyr Pro Arg Asn Arg Tyr Thr Ser Leu
                260                   265                   270

    Phe Leu Ile Val Asn Ser Val Ile Leu Ile Leu Ser Val Ile Ile Thr
            275                   280                   285

Ile Leu Val Gln His Lys Tyr Pro Asn Leu Val Leu Leu Asp
```

800

290   295   300

<210> 854
<211> 237
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (235)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 854
Val Pro Ala Ser Phe Ala Ala Ala Ser Ala Val Leu Ser Ala Val Phe
 1   5   10   15

Pro Gln Glu Pro Ala Tyr Phe Leu Asn Met Glu Ser Val Val Arg Arg
            20   25   30

Cys Pro Phe Leu Ser Arg Val Pro Gln Ala Phe Leu Gln Lys Ala Gly
        35   40   45

Lys Ser Leu Leu Phe Tyr Ala Gln Asn Cys Pro Lys Met Met Glu Val
    50   55   60

Gly Ala Lys Pro Ala Pro Arg Ala Leu Ser Thr Ala Ala Val His Tyr
65   70   75   80

Gln Gln Ile Lys Glu Thr Pro Pro Ala Ser Glu Lys Asp Lys Thr Ala
                85   90   95

Lys Ala Lys Val Gln Gln Thr Pro Asp Gly Ser Gln Gln Ser Pro Asp
            100   105   110

Gly Thr Gln Leu Pro Ser Gly His Pro Leu Pro Ala Thr Ser Gln Gly
        115   120   125

Thr Ala Ser Lys Cys Pro Phe Leu Ala Ala Gln Met Asn Gln Arg Gly
    130   135   140

Ser Ser Val Phe Cys Lys Ala Ser Leu Glu Leu Gln Glu Asp Val Gln
145   150   155   160

Glu Met Asn Ala Val Arg Lys Glu Val Ala Glu Thr Ser Ala Gly Pro
                165   170   175

Ser Val Val Ser Val Lys Thr Asp Gly Gly Asp Pro Ser Gly Leu Leu
            180   185   190

Lys Asn Phe Gln Asp Ile Met Gln Lys Gln Arg Pro Glu Arg Val Ser
        195   200   205

His Leu Leu Gln Asp Asn Leu Pro Lys Ser Val Ser Thr Phe Gln Tyr
        210   215   220

Asp Arg Phe Phe Glu Lys Lys Ile Asp Glu Xaa Lys Glu
225   230   235

<210> 855
<211> 272
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 855
Thr Pro Gly Ile Phe Thr Glu Gln Ser Met Ile Thr Phe Leu Pro Leu
  1   5   10   15

Leu Leu Gly Leu Ser Leu Gly Cys Thr Gly Ala Gly Gly Phe Val Ala
                20   25   30

His Val Glu Ser Thr Cys Leu Leu Asp Asp Ala Gly Thr Pro Lys Asp
        35   40   45

Phe Thr Tyr Cys Ile Ser Phe Asn Lys Asp Leu Leu Thr Cys Trp Asp
        50   55   60

Pro Glu Glu Asn Lys Met Ala Pro Cys Glu Phe Gly Val Leu Asn Ser
65   70   75   80

Leu Ala Asn Val Leu Ser Gln His Leu Asn Gln Lys Asp Thr Leu Met
                85   90   95

Gln Arg Leu Arg Asn Gly Leu Gln Asn Cys Ala Thr His Thr Gln Pro
                100   105   110

Phe Trp Gly Ser Leu Thr Asn Arg Thr Arg Pro Pro Ser Val Gln Val
        115   120   125

Ala Lys Thr Thr Pro Phe Asn Thr Arg Glu Pro Val Met Leu Ala Cys
        130   135   140

Tyr Val Trp Gly Phe Tyr Pro Ala Glu Val Thr Ile Thr Trp Arg Lys
145   150   155   160

```
Asn Gly Lys Leu Val Met Pro His Ser Ser Ala His Lys Thr Ala Gln
                165                 170                 175

Pro Asn Gly Asp Trp Thr Tyr Gln Thr Leu Ser His Leu Ala Leu Thr
            180                 185                 190

Pro Ser Tyr Gly Asp Thr Tyr Thr Cys Xaa Val Glu His Ile Gly Ala
        195                 200                 205

Pro Glu Pro Ile Leu Arg Asp Trp Thr Pro Gly Leu Ser Pro Met Gln
    210                 215                 220

Thr Leu Lys Val Ser Val Ser Ala Val Thr Leu Gly Leu Gly Leu Ile
225                 230                 235                 240

Ile Phe Ser Leu Gly Val Ile Ser Trp Arg Arg Ala Gly His Ser Ser
            245                 250                 255

Tyr Thr Pro Leu Pro Gly Ser Asn Tyr Ser Glu Gly Trp His Ile Ser
            260                 265                 270
```

```
<210> 856
<211> 153
<212> PRT
<213> Homo sapiens

<400> 856
Val Val Ala Arg Phe Ile Arg Ile Tyr Pro Leu Thr Trp Asn Gly Ser
  1             5                 10                  15

Leu Cys Met Arg Leu Glu Val Leu Gly Cys Ser Val Ala Pro Val Tyr
            20                 25                  30

Ser Tyr Tyr Ala Gln Asn Glu Val Val Ala Thr Asp Asp Leu Asp Phe
        35                 40                  45

Arg His His Ser Tyr Lys Asp Met Arg Gln Leu Met Lys Val Val Asn
    50                 55                  60

Glu Glu Cys Pro Thr Ile Thr Arg Thr Tyr Ser Leu Gly Lys Ser Ser
65                 70                 75                  80

Arg Gly Leu Lys Ile Tyr Ala Met Glu Ile Ser Asp Asn Pro Gly Glu
            85                 90                  95
```

```
His Glu Leu Gly Glu Pro Glu Phe Arg Tyr Thr Ala Gly Ile His Gly
            100             105             110

Asn Glu Val Leu Gly Arg Glu Leu Leu Leu Leu Met Gln Tyr Leu
        115             120             125

Cys Arg Glu Tyr Arg Asp Gly Asn Pro Arg Val Arg Ser Trp Cys Arg
    130             135             140

Thr His Ala Ser Thr Trp Cys Pro His
145             150
```


```
<210> 857
<211> 258
<212> PRT
<213> Homo sapiens

<400> 857
Cys Leu Ser Gln Lys Ala Val Arg Ala Pro Arg Phe Leu Arg Gly Leu
    1               5               10              15

Pro Ser Gly Arg Val Asn Cys Phe Leu Gln Ala Gly His Gly Ala Ser
            20              25              30

Arg Ser Gln Gly Ser Gly Leu Cys Gln Met Leu Lys Glu Gly Ala Lys
        35              40              45

His Phe Ser Gly Leu Glu Glu Ala Val Tyr Arg Asn Ile Gln Ala Cys
    50              55              60

Lys Glu Leu Ala Gln Thr Thr Arg Thr Ala Tyr Gly Pro Asn Gly Met
65              70              75              80

Asn Lys Met Val Ile Asn His Leu Glu Lys Leu Phe Val Thr Asn Asp
                85              90              95

Ala Ala Thr Ile Leu Arg Glu Leu Glu Val Gln His Pro Ala Ala Lys
            100             105             110

Met Ile Val Met Ala Ser His Met Gln Glu Gln Glu Val Gly Asp Gly
        115             120             125

Thr Asn Phe Val Leu Val Phe Ala Gly Ala Leu Leu Glu Leu Ala Glu
    130             135             140

Glu Leu Leu Arg Ile Gly Leu Ser Val Ser Glu Val Ile Glu Gly Tyr
145             150             155             160

Glu Ile Ala Cys Arg Lys Ala His Glu Ile Leu Pro Asn Leu Val Cys
```

                    165   170   175

Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val Ser Ser Leu Leu
            180   185   190

Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu Val Phe Leu Ala
            195   200   205

Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro Asp Ser Gly His
    210   215   220

Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu Gly Ser Gly Ile
225   230   235   240

Ser Ser Ser Ser Val Leu His Gly Met Val Phe Lys Lys Glu Thr Glu
            245   250   255

Val Met

<210> 858
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 858
Pro Asp Ser Leu Pro Pro Pro Ser Pro Arg Leu Pro Ala Xaa Gly Pro
  1   5   10   15

Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Arg Ser Pro Ser Leu Gly
            20   25   30

Ile Pro Lys Cys Phe His Ser Val Ile Arg Thr Glu His Arg Gly Leu
            35   40   45

Thr Met Glu Phe Gly Leu Ser Trp Ile Phe Leu Ala Ala Ile Leu Lys
    50   55   60

Gly Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val

805

```
          65                    70                    75                    80
     Lys Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                         85                    90                    95

     Phe Ser Asn Ala Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                     100                   105                   110

     Leu Glu Trp Val Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr
                 115                   120                   125

     Asp Tyr Ala Ala Pro Val Xaa Arg Gln Ile His His Leu Lys Arg
             130                   135                   140
```

<210> 859
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 859
```
     Val Thr Met Ala Gln Gln Ala Ala Asp Lys Tyr Leu Tyr Val Asp Lys
      1                    5                    10                   15

     Asn Phe Ile Asn Asn Pro Leu Ala Gln Ala Asp Trp Ala Ala Lys Lys
                     20                    25                    30

     Leu Val Trp Val Pro Ser Asp Lys Ser Gly Phe Glu Pro Ala Ser Leu
                 35                    40                    45

     Lys Glu Glu Val Gly Glu Glu Ala Ile Val Glu Leu Val Glu Asn Gly
             50                    55                    60

     Lys Lys Val Lys Val Asn Lys Asp Asp Ile Gln Lys Met Asn Pro Pro
      65                    70                    75                    80

     Lys Phe Ser Lys Val Glu Asp Met Ala Glu Leu Thr Cys Leu Asn Glu
                     85                    90                    95

     Ala Ser Val Leu His Asn Leu Lys Glu Arg Tyr Tyr Ser Gly Leu Ile
```

806

```
                    100                 105                 110
    Tyr Val Ser Gly Cys Arg Gly Thr Pro Gln Ala Gly Ser Glu Gly Ser
            115                 120                 125

    Glu Val Gly Xaa Xaa Ala Gly
        130                 135



    <210> 860
    <211> 52
    <212> PRT
    <213> Homo sapiens

    <220>
    <221> SITE
    <222> (2)
    <223> Xaa equals any of the naturally occurring L-amino acids

    <400> 860
    Ala Xaa Leu Ile Lys Thr Arg Val Leu Ile Tyr Asn Lys Ser Asn Phe
     1               5                  10                  15

    Ser Leu Ser Leu Gly Thr Ser Asn Cys Thr Pro Gln Ile Thr Asp Thr
                20                  25                  30

    Ser Glu Phe Phe Met Val Lys Lys Ala Pro Thr Leu Thr Tyr Lys Cys
                35                  40                  45

    Gly Pro Arg Asn
        50



    <210> 861
    <211> 321
    <212> PRT
    <213> Homo sapiens

    <220>
    <221> SITE
    <222> (18)
    <223> Xaa equals any of the naturally occurring L-amino acids

    <400> 861
    Ala His Gly Val Thr Ser Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser
     1               5                  10                  15

    Thr Xaa Pro Pro Val His Asn Val Thr Ser Ala Ser Gly Ser Ala Ser
                20                  25                  30
```

Gly Ser Ala Ser Thr Leu Val His Asn Gly Thr Ser Ala Arg Ala Thr
        35   40   45

Thr Thr Pro Ala Ser Lys Ser Thr Pro Phe Ser Ile Pro Ser His His
        50   55   60

Ser Asp Thr Pro Thr Thr Leu Ala Ser His Ser Thr Lys Thr Asp Ala
65   70   75   80

Ser Ser Thr His His Ser Thr Val Pro Pro Leu Thr Ser Ser Asn His
                85   90   95

Ser Thr Ser Pro Gln Leu Ser Thr Gly Val Ser Phe Phe Phe Leu Ser
            100   105   110

Phe His Ile Ser Asn Leu Gln Phe Asn Ser Ser Leu Glu Asp Pro Ser
        115   120   125

Thr Asp Tyr Tyr Gln Glu Leu Gln Arg Asp Ile Ser Glu Met Phe Leu
        130   135   140

Gln Ile Tyr Lys Gln Gly Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe
145   150   155   160

Arg Pro Gly Ser Val Val Val Gln Leu Thr Leu Ala Phe Arg Glu Gly
                165   170   175

Thr Ile Asn Val His Asp Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr
            180   185   190

Glu Ala Ala Ser Arg Tyr Asn Leu Thr Ile Ser Asp Val Ser Val Ser
        195   200   205

Asp Val Pro Phe Pro Phe Ser Ala·Gln Ser Gly Ala Gly Val Pro Gly
        210   215   220

Trp Gly Ile Ala Leu Leu Val Leu Val Cys Val Leu Val Ala Leu Ala
225   230   235   240

Ile Val Tyr Leu Ile Ala Leu Ala Val Cys Gln Cys Arg Arg Lys Asn
                245   250   255

Tyr Gly Gln Leu Asp Ile Phe Pro Ala Arg Asp Thr Tyr His Pro Met
            260   265   270

Ser Glu Tyr Pro Thr Tyr His Thr His Gly Arg Tyr Val Pro Pro Ser
        275   280   285

Ser Thr Asp Arg Ser Pro Tyr Glu Lys Val Ser Ala Gly Asn Gly Gly
        290   295   300

```
Ser Ser Leu Ser Tyr Thr Asn Pro Ala Val Ala Ala Thr Ser Ala Asn
305             310             315             320

Leu



<210> 862
<211> 327
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (307)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 862
Phe Gly Thr Ser Leu Thr Gln Val Leu Leu Gly Ala Gly Glu Asn Thr
  1             5              10              15

Lys Thr Asn Leu Glu Ser Ile Leu Ser Tyr Pro Lys Asp Phe Thr Cys
            20              25              30

Val His Gln Ala Leu Lys Gly Phe Thr Thr Lys Gly Val Thr Ser Val
         35              40              45

Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile Arg Asp Thr Phe Val
      50              55              60

Asn Ala Ser Arg Thr Leu Tyr Ser Ser Ser Pro Arg Val Leu Ser Asn
 65             70              75              80

Asn Ser Asp Ala Asn Leu Glu Leu Ile Asn Thr Trp Val Ala Lys Asn
            85              90              95

Thr Asn Asn Lys Ile Ser Arg Leu Leu Asp Ser Leu Pro Ser Asp Thr
            100             105             110

Arg Leu Val Leu Leu Asn Ala Ile Tyr Leu Ser Ala Lys Trp Lys Thr
         115             120             125

Thr Phe Asp Pro Lys Lys Thr Arg Met Glu Pro Phe His Phe Lys Asn
         130             135             140

Ser Val Ile Lys Val Pro Met Met Asn Ser Lys Lys Tyr Pro Val Ala
145             150             155             160

His Phe Ile Asp Gln Thr Leu Lys Ala Lys Val Gly Gln Leu Gln Leu
```

```
                165                    170                      175.

Ser His Asn Leu Ser Leu Val Ile Leu Val Pro Gln Asn Leu Lys His
            180                    185                    190

Arg Leu Glu Asp Met Glu Gln Ala Leu Ser Pro Ser Val Phe Lys Ala
            195                    200                    205

Ile Met Glu Lys Leu Glu Met Ser Lys Phe Gln Pro Thr Leu Leu Thr
    210                    215                    220

Leu Pro Arg Ile Lys Val Thr Thr Ser Gln Asp Met Leu Ser Ile Met
225                    230                    235                    240

Glu Lys Leu Glu Phe Phe Asp Phe Ser Tyr Asp Leu Asn Leu Cys Gly
            245                    250                    255

Leu Thr Glu Asp Pro Asp Leu Gln Val Ser Ala Met Gln His Gln Thr
            260                    265                    270

Val Leu Glu Leu Thr Glu Thr Gly Val Glu Ala Ala Ala Ala Ser Ala
            275                    280                    285

Ile Ser Val Ala Arg Thr Leu Leu Val Phe Glu Val Gln Gln Pro Phe
    290                    295                    300

Leu Phe Xaa Leu Trp Asp Gln Gln His Lys Phe Pro Val Phe Met Gly
305                    310                    315                    320

Arg Val Tyr Asp Pro Arg Ala
            325
```

```
<210> 863
<211> 86
<212> PRT
<213> Homo sapiens

<400> 863
Tyr Tyr Ile Val His Leu Lys Leu Thr Glu Arg Val Asn Leu Lys Cys
  1             5                    10                    15

Ser His His Thr Asn Pro Lys Val Thr Met Phe Ser Pro His Lys Pro
            20                    25                    30

Lys Gly Asn Tyr Val Leu Ile Ser Leu Ile Val Val Thr Ile Ser Gln
            35                    40                    45

Cys Ile His Leu Pro Lys His Tyr Val Val Tyr Leu Glu Tyr Ile Ile
    50                    55                    60
```

```
Leu Phe Ile Asn Tyr Thr Ser Ile Lys Leu Lys Glu Gly Ile Thr Asn
 65                  70              75                  80

Ser His Lys Ile Gln Ile
                85
```

<210> 864
<211> 130
<212> PRT
<213> Homo sapiens

<400> 864

```
Leu Thr Gln Gln Gln Pro Ala Thr Gly Pro Gln Pro Ser Leu Gly
  1               5              10                  15

Val Ser Phe Gly Thr Pro Phe Gly Ser Gly Ile Gly Thr Gly Leu Gln
                20              25                  30

Ser Ser Gly Leu Gly Ser Ser Asn Leu Gly Gly Phe Gly Thr Ser Ser
            35              40                  45

Gly Phe Gly Cys Ser Thr Thr Gly Ala Ser Thr Phe Gly Phe Gly Thr
       50              55                  60

Thr Asn Lys Pro Ser Gly Ser Leu Ser Ala Gly Phe Gly Ser Ser Ser
 65              70              75                  80

Thr Ser Gly Phe Asn Phe Ser Asn Pro Gly Ile Thr Ala Ser Ala Gly
                85              90                  95

Leu Thr Phe Gly Val Ser Asn Pro Ala Ser Ala Gly Phe Gly Thr Gly
           100             105                 110

Gly Gln Leu Leu Gln Leu Lys Lys Pro Pro Ala Gly Asn Lys Arg Gly
           115             120                 125

Lys Arg
    130
```

<210> 865
<211> 78
<212> PRT
<213> Homo sapiens

<400> 865

```
Ser Glu Trp Lys Ile Lys Gly Pro Ser Ser Pro Leu Ala Ser Leu Pro
```

811

```
        1              5               10              15

    Gly Arg Arg His Gly Gly Ser Ser Ala Thr Gly Ala Cys Gly Glu Ala
                20              25              30

    Met Ala Ala Ala Glu Gly Ser Ser Gly Pro Ala Gly Leu Thr Leu Gly
                35              40              45

    Arg Ser Phe Ser Asn Tyr Arg Pro Phe Glu Pro Gln Ala Leu Gly Leu
        50              55              60

    Ser Pro Ser Trp Arg Leu Thr Gly Phe Ser Gly Met Lys Gly
    65              70              75
```

```
<210> 866
<211> 529
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (517)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 866
Pro Pro Pro Glu Pro Arg Ala Xaa Met Ala Glu Asn Pro Ser Leu Glu
    1              5               10              15

Asn His Arg Ile Lys Ser Phe Lys Asn Lys Gly Arg Asp Val Glu Thr
                20              25              30

Met Arg Arg His Arg Asn Glu Val Thr Val Glu Leu Arg Lys Asn Lys
            35              40              45

Arg Asp Glu His Leu Leu Lys Lys Arg Asn Val Pro Gln Glu Glu Ser
    50              55              60

Leu Glu Asp Ser Asp Val Asp Ala Asp Phe Lys Ala Gln Asn Val Thr
    65              70              75              80

Leu Glu Ala Ile Leu Gln Asn Ala Thr Ser Asp Asn Pro Val Val Gln
                85              90              95

Leu Ser Ala Val Gln Ala Ala Arg Lys Leu Leu Ser Ser Asp Arg Asn
```

812

```
                 100                    105                    110

  Pro Pro Ile Asp Asp Leu Ile Lys Ser Gly Ile Leu Pro Ile Leu Val
          115                120                125

  Lys Cys Leu Glu Arg Asp Asp Asn Pro Ser Leu Gln Phe Glu Ala Ala
      130                135                140

  Trp Ala Leu Thr Asn Ile Ala Ser Gly Thr Ser Ala Gln Thr Gln Ala
  145                150                155                160

  Val Val Gln Ser Asn Ala Val Pro Leu Phe Leu Arg Leu Leu Arg Ser
                  165                170                175

  Pro His Gln Asn Val Cys Glu Gln Ala Val Trp Ala Leu Gly Asn Ile
              180                185                190

  Ile Gly Asp Gly Pro Gln Cys Arg Asp Tyr Val Ile Ser Leu Gly Val
              195                200                205

  Val Lys Pro Leu Leu Ser Phe Ile Ser Pro Ser Ile Pro Ile Thr Phe
      210                215                220

  Leu Arg Asn Val Thr Trp Val Ile Val Asn Leu Cys Arg Asn Lys Asp
  225                230                235                240

  Pro Pro Pro Pro Met Glu Thr Val Gln Glu Ile Leu Pro Ala Leu Cys
                  245                250                255

  Val Leu Ile Tyr His Thr Asp Ile Asn Ile Leu Val Asp Thr Val Trp
              260                265                270

  Ala Leu Ser Tyr Leu Thr Asp Gly Gly Asn Glu Gln Ile Gln Met Val
          275                280                285

  Ile Asp Ser Gly Val Val Pro Phe Leu Val Pro Leu Leu Ser His Gln
      290                295                300

  Glu Val Lys Val Gln Thr Ala Ala Leu Arg Ala Val Gly Asn Ile Val
  305                310                315                320

  Thr Gly Thr Asp Glu Gln Thr Gln Val Val Leu Asn Cys Asp Val Leu
                  325                330                335

  Ser His Phe Pro Asn Leu Leu Ser His Pro Lys Glu Lys Ile Asn Lys
              340                345                350

  Glu Ala Val Trp Phe Leu Ser Asn Ile Thr Ala Gly Asn Gln Gln Gln
          355                360                365

  Val Gln Ala Val Ile Asp Ala Gly Leu Ile Pro Met Ile Ile His Gln
```

813

```
             370                375                380

     Leu Ala Lys Gly Asp Phe Gly Thr Gln Lys Glu Ala Ala Trp Ala Ile
     385                390                395                400

     Ser Asn Leu Thr Ile Ser Gly Arg Lys Asp Gln Val Glu Tyr Leu Val
                     405                410                415

     Gln Gln Asn Val Ile Pro Pro Phe Cys Asn Leu Leu Ser Val Lys Asp
                     420                425                430

     Ser Gln Val Val Gln Val Val Leu Asp Gly Leu Lys Asn Ile Leu Ile
                 435                440                445

     Met Ala Gly Asp Glu Ala Ser Thr Ile Ala Glu Ile Ile Glu Glu Cys
             450                455                460

     Gly Gly Leu Glu Lys Ile Glu Val Leu Gln Gln His Glu Asn Glu Asp
     465                470                475                480

     Ile Tyr Lys Leu Ala Phe Glu Ile Ile Asp Gln Tyr Phe Ser Gly Asp
                     485                490                495

     Asp Ile Asp Glu Asp Pro Cys Leu Ile Pro Glu Ala Thr Gln Gly Gly
                 500                505                510

     Thr Tyr Asn Phe Xaa Pro Thr Ala Asn Leu Gln Thr Lys Glu Phe Asn
             515                520                525

     Phe
```

```
<210> 867
<211> 237
<212> PRT
<213> Homo sapiens

<400> 867
Arg Pro Gly Pro Val Arg Arg Arg Gly Lys Val Glu Leu Ile Lys Phe
  1                5                10                15

Val Arg Val Gln Trp Arg Arg Pro Gln Val Glu Trp Arg Arg Arg Arg
             20                25                30

Trp Gly Pro Gly Pro Gly Ala Ser Met Ala Gly Ser Glu Glu Leu Gly
             35                40                45

Leu Arg Glu Asp Thr Leu Arg Val Leu Ala Ala Phe Leu Arg Arg Gly
     50                55                60
```

```
Glu Ala Ala Gly Ser Pro Val Pro Thr Pro Pro Arg Ser Pro Ala Gln
65                70            75                80

Glu Glu Pro Thr Asp Phe Leu Ser Arg Leu Arg Arg Cys Leu Pro Cys
              85              90              95

Ser Leu Gly Arg Gly Ala Ala Pro Ser Glu Ser Pro Arg Pro Cys Ser
          100            105            110

Leu Pro Ile Arg Pro Cys Tyr Gly Leu Glu Pro Gly Pro Ala Thr Pro
          115            120            125

Asp Phe Tyr Ala Leu Val Ala Gln Arg Leu Glu Gln Leu Val Gln Glu
    130            135            140

Gln Leu Lys Ser Pro Pro Ser Pro Glu Leu Gln Gly Pro Pro Ser Thr
145            150            155            160

Glu Lys Glu Ala Ile Leu Arg Arg Leu Val Ala Leu Leu Glu Glu Glu
          165            170            175

Ala Glu Val Ile Asn Gln Lys Leu Ala Ser Asp Pro Ala Leu Arg Thr
          180            185            190

Ser Trp Ser Ala Cys Pro Pro Thr Leu Ser Pro Ala Trp Trp Ser Cys
          195            200            205

Ser Val Ala Gly Met Thr Ala Leu Ala Gln Ala Glu His Ala Pro Gly
    210            215            220

Pro Arg Leu Leu Pro Arg Ser Pro Trp Pro Ala Trp Pro
225            230            235
```

```
<210> 868
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 868
Leu Ser Val Ser Ala Xaa Ala Ala Xaa Val Ala Ala Ala Ala Ile His
 1   5   10   15

Ser Asp Ser Ala Ala Ala Pro Gly Gly Gly Gly Ala Ala Arg Asp Phe
                20   25   30

Phe Phe Phe Gln Thr Asp Arg Gly Ala Ala Ala Asp Met Ser Thr Pro
            35   40   45

Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu Asp Pro
        50   55   60

Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met Gln Trp
 65   70   75   80

Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp Gly Thr
                85   90   95

Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys Pro Pro
            100   105   110

Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr Ala Asp
        115   120   125

Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro Thr Tyr
    130   135   140

Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp Glu Pro
145   150   155   160

Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr Gln Glu
                165   170   175

Asn Lys Arg Glu Tyr Glu Lys Arg Val Ser Ala Ile Val Glu Gln Ser
            180   185   190

Trp Asn Asp Ser
        195

<210> 869
<211> 544
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 869
Ala Asp Ala Trp Val Ala Xaa Ala Xaa Ala Ser Ser Gly Leu Val Val
 1               5               10                  15


Ala Arg Pro Thr Ser Ala Val Pro Ala Glu Pro Arg Pro Phe Arg Pro
            20              25                  30


Ser Pro Pro His Leu Ala Ala Met Arg Leu Arg Arg Leu Ala Leu Phe
        35              40                  45


Pro Gly Val Ala Leu Leu Leu Ala Ala Ala Arg Leu Ala Ala Ala Ser
    50              55                  60


Asp Val Leu Glu Leu Thr Asp Asp Asn Phe Glu Ser Arg Ile Ser Asp
65                  70              75                  80


Thr Gly Ser Ala Gly Leu Met Leu Val Glu Phe Phe Ala Pro Trp Cys
            85                  90                  95


Gly His Cys Lys Arg Leu Ala Pro Glu Tyr Glu Ala Ala Ala Thr Arg
            100             105             110


Leu Lys Gly Ile Val Pro Leu Ala Lys Val Asp Cys Thr Ala Asn Thr
        115             120             125


Asn Thr Cys Asn Lys Tyr Gly Val Ser Gly Tyr Pro Thr Leu Lys Ile
    130             135             140


Phe Arg Asp Gly Glu Glu Ala Gly Ala Tyr Asp Gly Pro Arg Thr Ala
145             150             155             160


Asp Gly Ile Val Ser His Leu Lys Lys Gln Ala Gly Pro Ala Ser Val
            165             170             175


Pro Leu Arg Thr Glu Glu Glu Phe Lys Lys Phe Ile Ser Asp Lys Asp
            180             185             190


Ala Ser Ile Val Gly Phe Phe Asp Asp Ser Phe Ser Glu Ala His Ser
        195             200             205


Glu Phe Leu Lys Ala Ala Ser Asn Leu Arg Asp Asn Tyr Arg Phe Ala
    210             215             220


His Thr Asn Val Glu Ser Leu Val Asn Glu Tyr Asp Asp Asn Gly Glu
225             230             235             240
```

```
Gly Ile Ile Leu Phe Arg Pro Ser His Leu Thr Asn Lys Phe Glu Asp
            245             250             255

Lys Thr Val Ala Tyr Thr Glu Gln Lys Met Thr Ser Gly Lys Ile Lys
            260             265             270

Lys Phe Ile Gln Glu Asn Ile Phe Gly Ile Cys Pro His Met Thr Glu
        275             280             285

Asp Asn Lys Asp Leu Ile Gln Gly Lys Asp Leu Leu Ile Ala Tyr Tyr
    290             295             300

Asp Val Asp Tyr Glu Lys Asn Ala Lys Gly Ser Asn Tyr Trp Arg Asn
305             310             315             320

Arg Val Met Met Val Ala Lys Lys Phe Leu Asp Ala Gly His Lys Leu
            325             330             335

Asn Phe Ala Val Ala Ser Arg Lys Thr Phe Ser His Glu Leu Ser Asp
            340             345             350

Phe Gly Leu Glu Ser Thr Ala Gly Glu Ile Pro Val Val Ala Ile Arg
        355             360             365

Thr Ala Lys Gly Glu Lys Phe Val Met Gln Glu Glu Phe Ser Arg Asp
    370             375             380

Gly Lys Ala Leu Glu Arg Phe Leu Gln Asp Tyr Phe Asp Gly Asn Leu
385             390             395             400

Lys Arg Tyr Leu Lys Ser Glu Pro Ile Pro Glu Ser Asn Asp Gly Pro
            405             410             415

Val Lys Val Val Val Ala Glu Asn Phe Asp Glu Ile Val Asn Asn Glu
            420             425             430

Asn Lys Asp Val Leu Ile Glu Phe Tyr Ala Pro Trp Cys Gly His Cys
        435             440             445

Lys Asn Leu Glu Pro Lys Tyr Lys Glu Leu Gly Glu Lys Leu Ser Lys
    450             455             460

Asp Pro Asn Ile Val Ile Ala Lys Met Asp Ala Thr Ala Asn Asp Val
465             470             475             480

Pro Ser Pro Tyr Glu Val Arg Gly Phe Pro Thr Ile Tyr Phe Ser Pro
            485             490             495

Ala Asn Lys Lys Leu Asn Pro Lys Lys Tyr Glu Gly Gly Arg Glu Leu
        500             505             510
```

818

```
Ser Asp Phe Ile Ser Tyr Leu Gln Arg Glu Ala Thr Asn Pro Pro Val
        515             520             525

Ile Gln Glu Glu Lys Pro Lys Lys Lys Lys Ala Gln Glu Asp Leu
        530             535             540
```

<210> 870
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 870
```
Arg Arg Xaa Ala Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe
 1           5               10              15

Xaa Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe
            20              25              30

Lys Asn Asn Glu Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly
        35              40              45

Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly
    50              55              60

Asp Arg Cys Ser Ser Arg Cys Pro Gln Asn Arg Leu Gln Asp Cys Met
65              70              75              80

Pro Gly Ser Met Ser Thr Pro Pro Phe Gln Asp Ile Tyr Cys Ile Pro
                85              90              95

Cys Lys Asn Lys Lys Thr Lys Asn Lys Glu Lys Lys Glu Ile Leu
            100             105             110
```

```
<210> 871
<211> 124
<212> PRT
<213> Homo sapiens

<400> 871
Gly Lys Thr Glu Val Asn Tyr Thr Gln Leu Val Asp Leu His Ala Arg
 1               5                  10                  15

Tyr Ala Glu Cys Gly Leu Arg Ile Leu Ala Phe Pro Cys Asn Gln Phe
            20                  25                  30

Gly Lys Gln Glu Pro Gly Ser Asn Glu Glu Ile Lys Glu Phe Ala Ala
        35                  40                  45

Gly Tyr Asn Val Lys Phe Asp Met Phe Ser Lys Ile Cys Val Asn Gly
    50                  55                  60

Asp Asp Ala His Pro Leu Trp Lys Trp Met Lys Ile Gln Pro Lys Gly
65                  70                  75                  80

Lys Gly Ile Leu Gly Asn Ala Ile Lys Trp Asn Phe Thr Lys Phe Leu
                85                  90                  95

Ile Asp Lys Asn Gly Cys Val Val Lys Arg Tyr Gly Pro Met Glu Glu
            100                 105                 110

Pro Leu Val Ile Glu Lys Asp Leu Pro His Tyr Phe
        115                 120


<210> 872
<211> 35
<212> PRT
<213> Homo sapiens

<400> 872
Ser Gln His Phe Gly Arg Pro Arg Gln Ala Glu His Leu Lys Glu Phe
 1               5                  10                  15

Lys Thr Ser Val Ala Asn Val Val Asn Pro Val Ser Thr Lys Asn Thr
            20                  25                  30

Lys Ile Val
        35


<210> 873
<211> 420
```

```
<212> PRT
<213> Homo sapiens

<400> 873
Val Cys Leu Gln Leu Cys Gln Ser Thr Val Ser Cys Pro Leu Gly Tyr
 1               5                  10                  15

Leu Ala Ser Thr Ala Thr Asn Asp Cys Gly Cys Thr Thr Thr Thr Cys
            20                  25                  30

Leu Pro Asp Lys Val Cys Val His Arg Ser Thr Ile Tyr Pro Val Gly
            35                  40                  45

Gln Phe Trp Glu Glu Gly Cys Asp Val Cys Thr Cys Thr Asp Met Glu
        50                  55                  60

Asp Ala Val Met Gly Leu Arg Val Ala Gln Cys Ser Gln Lys Pro Cys
65                  70                  75                  80

Glu Asp Ser Cys Arg Ser Gly Phe Thr Tyr Val Leu His Glu Gly Glu
                85                  90                  95

Cys Cys Gly Arg Cys Leu Pro Ser Ala Cys Glu Val Val Thr Gly Ser
            100                 105                 110

Pro Arg Gly Asp Ser Gln Ser Ser Trp Lys Ser Val Gly Ser Gln Trp
        115                 120                 125

Ala Ser Pro Glu Asn Pro Cys Leu Ile Asn Glu Cys Val Arg Val Lys
        130                 135                 140

Glu Glu Val Phe Ile Gln Gln Arg Asn Val Ser Cys Pro Gln Leu Glu
145                 150                 155                 160

Val Pro Val Cys Pro Ser Gly Phe Gln Leu Ser Cys Lys Thr Ser Ala
            165                 170                 175

Cys Cys Pro Ser Cys Arg Cys Glu Arg Met Glu Ala Cys Met Leu Asn
            180                 185                 190

Gly Thr Val Ile Gly Pro Gly Lys Thr Val Met Ile Asp Val Cys Thr
            195                 200                 205

Thr Cys Arg Cys Met Val Gln Val Gly Val Ile Ser Gly Phe Lys Leu
    210                 215                 220

Glu Cys Arg Lys Thr Thr Cys Asn Pro Cys Pro Leu Gly Tyr Lys Glu
225                 230                 235                 240

Glu Asn Asn Thr Gly Glu Cys Cys Gly Arg Cys Leu Pro Thr Ala Cys
                245                 250                 255
```

```
Thr Ile Gln Leu Arg Gly Gly Gln Ile Met Thr Leu Lys Arg Asp Glu
            260             265             270

Thr Leu Gln Asp Gly Cys Asp Thr His Phe Cys Lys Val Asn Glu Arg
            275             280             285

Gly Glu Tyr Phe Trp Glu Lys Arg Val Thr Gly Cys Pro Pro Phe Asp
    290             295             300

Glu His Lys Cys Leu Ala Glu Gly Gly Lys Ile Met Lys Ile Pro Gly
305             310             315             320

Thr Cys Cys Asp Thr Cys Glu Glu Pro Glu Cys Asn Asp Ile Thr Ala
            325             330             335

Arg Leu Gln Tyr Val Lys Val Gly Ser Cys Lys Ser Glu Val Glu Val
            340             345             350

Asp Ile His Tyr Cys Gln Gly Lys Cys Ala Ser Lys Ala Met Tyr Ser
    355             360             365

Ile Asp Ile Asn Asp Val Gln Asp Gln Cys Ser Cys Cys Ser Pro Thr
    370             375             380

Arg Thr Glu Pro Met Gln Val Ala Leu His Cys Thr Asn Gly Ser Val
385             390             395             400

Val Tyr His Glu Val Leu Asn Ala Met Glu Cys Lys Cys Ser Pro Arg
            405             410             415

Lys Cys Ser Lys
        420
```

<210> 874
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

822

```
<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 874
Arg Gln Val Pro His Glu Arg Ala Val Arg Asp Gly Arg Gly Gly Gly
 1               5                  10                  15

Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser
                20                  25                  30

Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln
            35                  40                  45

Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala
        50                  55                  60

Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr
65                  70                  75                  80

Asp Ser Pro Phe Pro Asn Ser Cys Ala Xaa Gly Met Ala Asn Gly Asp
                85                  90                  95

Ala Pro Cys Met Gly Ala Xaa Lys Arg Gly Gly Cys Gly Gly Tyr Ala
            100                 105                 110

Gln Trp Thr Arg Tyr Thr Cys Gln Arg Pro Ser Ala Arg Ser Phe Arg
        115                 120                 125

Phe Leu Pro Phe Leu Ser Arg His Val Arg Arg Leu Ser Pro Xaa Ser
        130                 135                 140

Ser Lys Ser Val Gly Ser Leu
145                 150


<210> 875
<211> 95
<212> PRT
<213> Homo sapiens

<400> 875
Ala Leu Asn Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln
 1               5                  10                  15

Leu Lys Lys His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly
                20                  25                  30

Arg Leu Cys Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met
```

```
                    35                    40                    45

   Pro Gly Gly Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser
        50                    55                    60

   Val Glu Gln Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr
        65                    70                    75                    80

   Ala Glu Thr Pro Arg Pro Val Ser Pro Leu Gln Gly Val Ser Glu
                        85                    90                    95
```

```
<210> 876
<211> 238
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 876
Thr Lys Lys Ala Leu Glu Xaa Ser Asn Xaa Arg Phe Ala Ala Xaa Phe
  1               5                   10                    15

Phe Arg Thr Xaa Trp Asn Pro Pro Gly Ala Phe Lys Glu Phe Gly Thr
                20                    25                    30

Ser Leu Leu Arg Arg Arg Arg Gly Ser Gly Ala Asn Met Pro Val Ala
            35                    40                    45

Arg Ser Trp Val Cys Arg Lys Thr Tyr Val Thr Pro Arg Arg Pro Phe
      50                    55                    60
```

```
Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile Gly Glu Tyr Gly
 65                  70                  75                  80

Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe Thr Leu Ala Lys
                 85                  90                  95

Ile Arg Lys Ala Ala Arg Glu Leu Leu Thr Leu Asp Glu Lys Asp Pro
            100                 105                 110

Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg Leu Val Arg Ile
        115                 120                 125

Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr Ile Leu Gly Leu
    130                 135                 140

Lys Ile Glu Asp Phe Leu Glu Arg Arg Leu Gln Thr Gln Val Phe Lys
145                 150                 155                 160

Leu Gly Leu Ala Lys Ser Ile His His Ala Arg Val Leu Ile Arg Gln
                165                 170                 175

Arg His Ile Arg Val Arg Lys Gln Val Val Asn Ile Pro Ser Phe Ile
            180                 185                 190

Val Arg Leu Asp Ser Gln Lys His Ile Asp Phe Ser Leu Arg Ser Pro
        195                 200                 205

Tyr Gly Gly Gly Arg Pro Gly Arg Val Lys Arg Lys Asn Ala Lys Lys
    210                 215                 220

Gly Gln Gly Gly Ala Gly Ala Gly Asp Asp Glu Glu Glu Asp
225                 230                 235
```

```
<210> 877
<211> 79
<212> PRT
<213> Homo sapiens

<400> 877
Ala Gly Ile Arg His Glu Pro Ser Ala Ala Ala Met Ser Ser Gly Ala
 1               5                  10                  15

Ser Ala Ser Ala Leu Gln Arg Leu Val Glu Gln Leu Lys Leu Glu Ala
            20                  25                  30

Gly Val Glu Arg Ile Lys Val Ser Gln Ala Ala Ala Glu Leu Gln Gln
    35                  40                  45

Tyr Cys Met Gln Asn Ala Cys Lys Asp Ala Leu Leu Val Gly Val Pro
```

```
                50                    55                    60

    Ala Gly Ser Asn Pro Phe Arg Glu Pro Arg Ser Cys Ala Leu Leu
     65                  70                  75
```

```
<210> 878
<211> 136
<212> PRT
<213> Homo sapiens

<400> 878
Ile Ala Ile Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met
 1               5                  10                  15

Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His
             20                  25                  30

Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala
         35                  40                  45

Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg
     50                  55                  60

Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp
 65                  70                  75                  80

Ser Leu Asp Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg
                 85                  90                  95

His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu
             100                 105                 110

Arg Lys Asn Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val
         115                 120                 125

Gly Ala Gly Lys Lys Pro Lys Glu
     130                 135
```

```
<210> 879
<211> 141
<212> PRT
<213> Homo sapiens

<400> 879
Gly Cys Val Gly Val Arg Pro Ser Leu His Pro Ala Thr Ser Thr Ala
 1               5                  10                  15
```

```
Ser Gly Ser Ala Ser Pro Thr Leu Ala Arg Ala Met Ala Ser Val Ser
            20              25              30

Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val
        35              40              45

Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile Lys Ala Ala Gly Val
    50              55              60

Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala Lys Ala Leu Ala Asn
65              70              75              80

Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala
                85              90              95

Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala
            100             105             110

Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala Lys Lys Glu Glu Ser
        115             120             125

Glu Glu Ser Asp Asp Asp Met Gly Phe Gly Leu Phe Asp
    130             135             140
```

<210> 880
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

```
<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 880
Ser Ala Gly Ala His Ala His Gly Ala Arg Glu Leu Ala Xaa Phe Leu
 1               5                   10                  15

Thr Pro Xaa Pro Gly Ala Glu Ala Lys Glu Val Glu Glu Thr Ile Glu
            20              25                  30

Gly Met Leu Leu Arg Leu Glu Glu Phe Cys Ser Leu Ala Asp Leu Ile
        35              40                  45

Arg Ser Asp Thr Ser Gln Ile Leu Glu Glu Asn Ile Pro Val Leu Lys
    50              55                  60

Ala Lys Leu Thr Glu Met Arg Gly Ile Tyr Ala Lys Val Asp Arg Leu
65              70                  75                  80

Glu Ala Phe Val Lys Met Val Gly His His Val Ala Phe Leu Glu Ala
            85                  90                  95

Asp Val Leu Gln Ala Glu Arg Asp His Gly Ala Phe Pro Gln Ala Leu
            100             105             110

Arg Arg Trp Leu Gly Ser Ala Gly Ser Pro Pro Ser Gly Thr Ser Xaa
        115             120             125

Leu Xaa Xaa Cys Pro
    130


<210> 881
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
```

<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 881
```
Ile Glu Glu Pro Arg Asp Thr Arg Leu Gln Val Cys Ser Xaa Val His
 1               5                  10                  15

Ile Trp Cys Leu Asp Lys Phe Lys Met Arg Lys His Arg His Leu Pro
            20                  25                  30

Leu Val Ala Val Phe Cys Leu Phe Leu Ser Gly Phe Pro Thr Thr His
            35                  40                  45

Ala Gln Gln Gln Gln Ala Val Ile Glu Val Asn Lys Arg Asp Ile Val
        50                  55                  60

Phe Leu Val Asp Gly Ser Ser Ala Leu Gly Leu Ala Asn Phe Asn Ala
65                  70                  75                  80

Ile Arg Asp Phe Ile Ala Lys Val Ile Gln Arg Leu Glu Ile Gly Gln
            85                  90                  95

Asp Leu Ile Gln Val Ala Val Ala Gln Tyr Ala Asp Thr Val Arg Pro
            100                 105                 110

Glu Phe Tyr Phe Asn Thr His Pro Thr Lys Arg Xaa Val Ile Thr Ala
            115                 120                 125

Val Arg Lys Met Lys Pro Leu Xaa Gly Ser Ala Leu Tyr Thr Gly Ser
130                 135                 140

Ala Leu Asp Phe Val Arg Asn Asn Leu Phe Thr Ser Ser Ala Gly Tyr
145                 150                 155                 160

Arg Ala Ala Glu Gly Ile Pro Lys Leu Leu Xaa Leu Ile Thr Gly Gly
            165                 170                 175

Lys Ser Leu Asp Glu Ile Ser Gln Pro Ala Gln Glu Leu Lys Arg Ser
            180                 185                 190

Ser Ile Met Ala Phe Ala Ile Gly Asn Lys Gly Ala Asp Gln Ala Glu
            195                 200                 205

Leu Glu Glu Ile Ala Phe Asp Ser Ser Leu Val Phe Ile Pro Ala Glu
            210                 215                 220
```

```
Phe Arg Ala Ala Pro Leu Gln Gly Met Leu Pro Gly Leu Leu Ala Pro
225                 230             235                 240

Leu Arg Thr Leu Ser Gly Thr Pro Glu Val His Ser Asn Lys Arg Asp
                245             250             255

Ile Ile Phe Leu
            260
```

<210> 882
<211> 149
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 882
Xaa Xaa Glu Ser Glu Xaa Ser Phe Xaa Cys Arg Lys Xaa Ile Ile Xaa
 1   5   10   15

Phe Leu Xaa Tyr Lys Arg Val Val Phe Leu Lys Gln Leu Ala Ser Gly
             20   25   30

Leu Leu Leu Val Thr Gly Pro Leu Val Leu Asn Arg Val Pro Leu Arg
         35   40   45

Arg Thr His Gln Lys Phe Val Ile Ala Thr Ser Thr Lys Ile Asp Ile
     50   55   60

Ser Asn Val Lys Ile Pro Lys His Leu Thr Asp Ala Tyr Phe Lys Lys
65   70   75   80

Lys Lys Leu Arg Lys Pro Arg His Gln Glu Gly Glu Ile Phe Asp Thr
             85   90   95

Glu Lys Glu Lys Tyr Glu Ile Thr Glu Gln Arg Lys Ile Asp Gln Lys
             100   105   110

Ala Val Asp Ser Gln Ile Leu Pro Lys Ile Lys Ala Ile Pro Gln Leu
         115   120   125

Gln Gly Tyr Leu Arg Ser Val Phe Ala Leu Thr Asn Gly Ile Tyr Pro
     130   135   140

His Lys Leu Val Phe
145

<210> 883
<211> 256
<212> PRT
<213> Homo sapiens

<400> 883
Trp Lys Ser Val Val Val Leu Ala Val Ser Ala Gly Ala Gly Ser Ala
 1   5   10   15

His Pro Arg Gln Asn Lys Tyr Ser Val Leu Leu Pro Thr Tyr Asn Glu
             20   25   30

Arg Glu Asn Leu Pro Leu Ile Val Trp Leu Leu Val Lys Ser Phe Ser
         35   40   45

Glu Ser Gly Ile Asn Tyr Glu Ile Ile Ile Ile Asp Asp Gly Ser Pro
         50   55   60

```
Asp Gly Thr Arg Asp Val Ala Glu Gln Leu Glu Lys Ile Tyr Gly Ser
 65              70              75              80

Asp Arg Ile Leu Leu Arg Pro Arg Glu Lys Lys Leu Gly Leu Gly Thr
             85              90              95

Ala Tyr Ile His Gly Met Lys His Ala Thr Gly Asn Tyr Ile Ile Ile
            100             105             110

Met Asp Ala Asp Leu Ser His His Pro Lys Phe Ile Pro Glu Phe Ile
        115             120             125

Arg Lys Gln Lys Glu Gly Asn Phe Asp Ile Val Ser Gly Thr Arg Tyr
    130             135             140

Lys Gly Asn Gly Gly Val Tyr Gly Trp Asp Leu Lys Arg Lys Ile Ile
145             150             155             160

Ser Arg Gly Ala Asn Phe Leu Thr Gln Ile Leu Leu Arg Pro Gly Ala
            165             170             175

Ser Asp Leu Thr Gly Ser Phe Arg Leu Tyr Arg Lys Glu Val Leu Glu
        180             185             190

Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
        195             200             205

Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Pro
    210             215             220

Ile Ser Phe Val Asp Arg Val Tyr Gly Glu Ser Lys Leu Gly Gly Asn
225             230             235             240

Glu Ile Val Ser Phe Leu Lys Gly Leu Leu Thr Leu Phe Ala Thr Thr
            245             250             255
```

<210> 884
<211> 449
<212> PRT
<213> Homo sapiens

<400> 884
```
Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly
  1           5               10              15
```

832

```
Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala
        20                  25                  30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser
        35                  40                  45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly
    50                  55                  60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp
65                  70                  75                  80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg
            85                  90                  95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly
            100                 105                 110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro
        115                 120                 125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro
    130                 135                 140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly
145                 150                 155                 160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
            165                 170                 175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu
            180                 185                 190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val
        195                 200                 205

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser
    210                 215                 220

Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro
225                 230                 235                 240

Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser
            245                 250                 255

Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile
            260                 265                 270

Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr
            275                 280                 285
```

```
Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys
    290             295             300

Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln
305             310             315             320

Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln
            325             330             335

Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr
            340             345             350

Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
            355             360             365

Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg
    370             375             380

Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys
385             390             395             400

Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr
            405             410             415

Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val
            420             425             430

Gly Ala Pro Asp Gln Glu Phe Gly Phe Asp Val Gly Pro Val Cys Phe
            435             440             445

Leu
```

```
<210> 885
<211> 64
<212> PRT
<213> Homo sapiens

<400> 885
Gly Lys Leu Val Thr Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp
  1             5             10             15

Pro Arg Val Arg Trp Gly Phe Thr Lys Phe Asn Ala Asp Glu Phe Glu
            20             25             30

Asp Met Val Ala Glu Lys Arg Leu Ile Pro Asp Gly Cys Gly Val Lys
            35             40             45

Tyr Ile Pro Ser Arg Gly Pro Leu Asp Lys Trp Arg Ala Leu His Ser
```

834

```
            50                55                 60
```

```
<210> 886
<211> 132
<212> PRT
<213> Homo sapiens

<400> 886
Thr Thr Leu Arg Ala Leu Ala Leu Asn Leu Trp Pro Pro Lys Ser Arg
  1               5                  10                  15

Ser Leu Ile Ser Ser Trp Gln Ser Cys Gly Gln Glu Val Leu Lys Gly
            20                  25                  30

Lys Thr His Ser Asp Asn Cys Ser Pro Ile Tyr Gln Pro Ser Ala Gly
            35                  40                  45

Val Ser Asp Arg Gly Pro Leu Pro Pro Leu Glu Cys Ala Thr Tyr Glu
        50                  55                  60

Glu Cys Pro Met Gly Lys Arg Arg Leu Ser Cys Pro Leu Ala Ala Cys
 65                  70                  75                  80

Ala Ser Ile Pro Gly Gln Lys Phe Pro Gln Glu Pro Leu Ala Leu Ala
                85                  90                  95

Gln Ser His Cys Glu Arg Arg Trp Glu Pro Thr Pro Leu Gly Glu Gly
            100                 105                 110

Ala Val Leu Leu Gly Thr Ser Gln His Gln Val Arg Ser Leu Lys Leu
        115                 120                 125

Lys Asn Val Asn
    130


<210> 887
<211> 70
<212> PRT
<213> Homo sapiens

<400> 887
Gly Leu Ser Ser Glu Ala Arg Glu Lys Ser Ser Glu Pro Gln Glu Arg
  1               5                  10                  15
```

```
Ser Ser Glu Pro Trp Glu Arg Ser Ser Glu Pro Trp Glu Gly Leu Val
             20              25              30

Thr Phe Glu Asp Val Ala Val Glu Phe Thr Gln Glu Glu Trp Ala Leu
         35              40              45

Leu Asp Pro Ala Gln Arg Thr Leu Tyr Arg Asp Val Met Leu Glu Asn
     50              55              60

Cys Arg Thr Trp Pro His
65                  70
```


<210> 888
<211> 373
<212> PRT
<213> Homo sapiens

<400> 888
```
Val Asp Pro Arg Val Arg Phe Arg Glu Glu Phe Leu Phe Ser Ser Leu
  1           5              10              15

Gln Glu Gly Arg Asp Lys Asp Thr Phe Ser Lys Met Ala Met Val Ser
             20              25              30

Glu Phe Leu Lys Gln Ala Trp Phe Ile Glu Asn Glu Glu Gln Glu Tyr
         35              40              45

Val Gln Thr Val Lys Ser Ser Lys Gly Gly Pro Gly Ser Ala Val Ser
     50              55              60

Pro Tyr Pro Thr Phe Asn Pro Ser Ser Asp Val Ala Ala Leu His Lys
65              70              75              80

Ala Ile Met Val Lys Gly Val Asp Glu Ala Thr Ile Ile Asp Ile Leu
             85              90              95

Thr Lys Arg Asn Asn Ala Gln Arg Gln Gln Ile Lys Ala Ala Tyr Leu
            100             105             110

Gln Glu Thr Gly Lys Pro Leu Asp Glu Thr Leu Lys Lys Ala Leu Thr
        115             120             125

Gly His Leu Glu Glu Val Val Leu Ala Leu Leu Lys Thr Pro Ala Gln
    130             135             140

Phe Asp Ala Asp Glu Leu Arg Ala Ala Met Lys Gly Leu Gly Thr Asp
145             150             155             160

Glu Asp Thr Leu Ile Glu Ile Leu Ala Ser Arg Thr Asn Lys Glu Ile
```

836

```
              165                 170                 175

Arg Asp Ile Asn Arg Val Tyr Arg Glu Glu Leu Lys Arg Asp Leu Ala
            180                 185                 190

Lys Asp Ile Thr Ser Asp Thr Ser Gly Asp Phe Arg Asn Ala Leu Leu
            195                 200                 205

Ser Leu Ala Lys Gly Asp Arg Ser Glu Asp Phe Gly Val Asn Glu Asp
    210                 215                 220

Leu Ala Asp Ser Asp Ala Arg Ala Leu Tyr Glu Ala Gly Glu Arg Arg
225                 230                 235                 240

Lys Gly Thr Asp Val Asn Val Phe Asn Thr Ile Leu Thr Thr Arg Ser
                245                 250                 255

Tyr Pro Gln Leu Arg Arg Val Phe Gln Lys Tyr Thr Lys Tyr Ser Lys
            260                 265                 270

His Asp Met Asn Lys Val Leu Asp Leu Glu Leu Lys Gly Asp Ile Glu
            275                 280                 285

Lys Cys Leu Thr Ala Ile Val Lys Cys Ala Thr Ser Lys Pro Ala Phe
    290                 295                 300

Phe Ala Glu Lys Leu His Gln Ala Met Lys Gly Val Gly Thr Arg His
305                 310                 315                 320

Lys Ala Leu Ile Arg Ile Met Val Ser Arg Ser Glu Ile Asp Met Asn
                325                 330                 335

Asp Ile Lys Ala Phe Tyr Gln Lys Met Tyr Gly Ile Ser Leu Cys Gln
            340                 345                 350

Ala Ile Leu Asp Glu Thr Lys Gly Asp Tyr Glu Lys Ile Leu Val Ala
            355                 360                 365

Leu Cys Gly Gly Asn
    370
```

<210> 889
<211> 336
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)

```
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 889
Gly Arg Lys Lys His Leu Xaa Ala Arg Leu Val Thr Glu Met Asp Ser
 1               5                  10                  15

Lys Tyr Gln Cys Val Lys Leu Asn Asp Gly His Phe Met Pro Val Leu
            20                  25                  30

Gly Phe Gly Thr Tyr Ala Pro Ala Glu Val Pro Lys Ser Lys Ala Leu
        35                  40                  45

Glu Ala Xaa Lys Leu Ala Ile Glu Ala Gly Phe Xaa His Ile Asp Ser
    50                  55                  60

Ala His Xaa Tyr Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser
65              70                  75                  80

Lys Ile Ala Asp Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser
            85                  90                  95

Lys Leu Trp Xaa Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu
            100                 105                 110

Glu Arg Ser Leu Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu
        115                 120                 125
```

```
Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys
    130             135         140

Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr
145             150         155                     160

Trp Glu Ala Val Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile
                165         170                     175

Gly Val Ser Asn Phe Asn Xaa Arg Gln Leu Glu Met Ile Leu Asn Lys
                180         185                     190

Pro Gly Leu Lys Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro
        195             200         205

Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile
    210             215         220

Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp
225             230         235                     240

Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala
            245         250             255

Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr
            260         265             270

Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln
    275             280         285

Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu
    290             295         300

Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr
305             310         315                     320

Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr
            325             330             335
```

```
Arg Ser Ser Glu Val Tyr Ala Gln Leu Cys Asn Val Ala Arg Ile Glu
 1               5                   10                  15

Ala Glu Arg Glu Ala Gly Val His Phe Arg Pro Gly Tyr Glu Tyr Gly
            20                  25                  30

Pro Gly Pro Asp Asp Leu His Tyr Ser Ile Tyr Gly Pro Asp Gly Ala
        35                  40                  45

Pro Phe Tyr Asn Tyr Leu Gly Pro Glu Asp Thr Val Pro Glu Pro Ala
    50                  55                  60

Phe Pro Asn Thr Ala Gly His Ser Ala Asp Arg Thr Pro Ile Leu Glu
 65                 70                  75                  80

Ser Pro Leu Gln Pro Ser Glu Leu Gln Pro His Tyr Val Ala Ser His
                85                  90                  95

Pro Glu Pro Pro Ala Gly Phe Glu Gly Leu Gln Ala Glu Glu Cys Gly
            100                 105                 110

Ile Leu Asn Gly Cys Glu Asn Gly Arg Cys Val Arg Val Arg Glu Gly
        115                 120                 125

Tyr Thr Cys Asp Cys Phe Glu Gly Phe Gln Leu Asp Ala Ala His Met
    130                 135                 140

Ala Cys Val Asp Val Asn Glu Cys Asp Asp Leu Asn Gly Pro Ala Val
145                 150                 155                 160

Leu Cys Val His Gly Tyr Cys Glu Asn Thr Glu Gly Ser Tyr Arg Cys
                165                 170                 175

His Cys Ser Pro Gly Tyr Val Ala Glu Ala Gly Pro Pro His Cys Thr
            180                 185                 190

Ala Lys Glu
        195
```

```
<210> 891
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 891
Ser Ala Gly Leu Thr Gly Arg Ile Ala Phe Ala Ala Ala Arg Pro Gln
 1               5                   10                  15

Thr Phe Val Pro Gly Pro Ser Ser Pro Pro Pro Pro Pro Pro Pro Arg
            20              25                  30

Pro Ala Glu Leu Ala Pro Ser Pro Pro Ala Asp Met Ser Glu Ser Lys
        35                  40                  45

Ser Gly Pro Glu Tyr Ala Ser Phe Phe Ala Val Met Gly Ala Ser Ala
    50                  55                  60

Ala Met Val Phe Ser Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser
65                  70                  75                  80

Gly Thr Gly Ile Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met
                85                  90                  95

Lys Ser Ile Ile Pro Val Val Met Ala Gly Ile Xaa Xaa Ile Tyr Gly
            100             105                 110

Leu Val Val Ala Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser
        115                 120                 125

Leu Tyr Lys Ser Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu
    130                 135                 140

Ser Gly Leu Ala Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly
145                 150                 155                 160

Val Arg Gly Asn Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu
                165                 170                 175

Ile Leu Ile Phe Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala
                180                 185                 190

Leu Ile Leu Ser Thr Lys
        195

<210> 892
<211> 95
<212> PRT
<213> Homo sapiens
```

<400> 892
Asp Ala Trp Ala Pro Ser Glu Ser Arg Glu Ala Leu Leu Thr Pro Pro
 1   5   10   15

Pro His Arg Arg His Thr Ala Ala Ala Ser Val Met Pro Lys His Glu
                20   25   30

Phe Ser Val Asp Met Thr Cys Gly Gly Cys Ala Glu Ala Val Ser Arg
            35   40   45

Val Leu Asn Lys Leu Gly Gly Val Lys Tyr Asp Ile Asp Leu Pro Asn
        50   55   60

Lys Lys Val Cys Ile Glu Ser Glu His Ser Met Asp Thr Leu Leu Ala
65   70   75   80

Thr Leu Lys Lys Thr Gly Lys Thr Val Ser Tyr Leu Gly Leu Glu
                85   90   95

<210> 893
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 893
Gly Glu His Pro Arg Gln Pro Ala Gly Asn Asn Ile Leu Ala Val Leu
 1   5   10   15

Thr Cys Cys Gln Gln Ile His Arg Thr Trp Met Lys Phe Pro Phe Pro
                20   25   30

Leu Val Ser Ser Cys Ser Thr Pro Leu Leu Asp Pro Lys Ser Leu Thr
            35   40   45

Lys Ala Leu Asn Thr Val Lys Met Phe Tyr Ile Pro Phe His Leu Cys
        50   55   60

Cys Phe Phe Asn Cys Ile Leu Pro Asp Val Leu Met Leu Ser Leu Met

842

```
         65                  70                  75                  80
    Leu Ile Val Ile Pro Val Arg Val His Phe Ile Phe Met Leu Phe Gln
                        85                  90                  95
    Pro Cys Ile Asn Ile His Leu Thr Lys Ile Thr Gln Leu Ile Xaa Lys
                   100                 105                 110
    Lys Lys Lys Asn Xaa Gly Gly Gly Pro Gly Thr
               115                 120
```

<210> 894
<211> 172
<212> PRT
<213> Homo sapiens

<400> 894

```
    Gln Phe Val Tyr Cys Gly Lys Lys Ala Gln Leu Asn Ile Gly Asn Val
     1               5                  10                  15
    Leu Pro Val Gly Thr Met Pro Glu Gly Thr Ile Val Cys Cys Leu Glu
                   20                  25                  30
    Glu Lys Pro Gly Asp Arg Gly Lys Leu Ala Arg Ala Ser Gly Asn Tyr
               35                  40                  45
    Ala Thr Val Ile Ser His Asn Pro Glu Thr Lys Lys Thr Arg Val Lys
           50                  55                  60
    Leu Pro Ser Gly Ser Lys Lys Val Ile Ser Ser Ala Asn Arg Ala Val
    65                  70                  75                  80
    Val Gly Val Val Ala Gly Gly Gly Arg Ile Asp Lys Pro Ile Leu Lys
                        85                  90                  95
    Ala Gly Arg Ala Tyr His Lys Tyr Lys Ala Lys Arg Asn Cys Trp Pro
                   100                 105                 110
    Arg Val Arg Gly Val Ala Met Asn Pro Val Glu His Pro Phe Gly Gly
               115                 120                 125
    Gly Asn His Gln His Ile Gly Lys Pro Ser Thr Ile Arg Arg Asp Ala
               130                 135                 140
    Pro Ala Gly Arg Lys Val Gly Leu Ile Ala Ala Arg Arg Thr Gly Arg
    145                 150                 155                 160
    Leu Arg Gly Thr Lys Thr Val Gln Glu Lys Glu Asn
                   165                 170
```

```
<210> 895
<211> 171
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 895
Asn Arg Glu Gly Ser Lys Gly Val Glu Thr Arg Arg Val Leu Val Gly
 1               5                  10                  15

Glu Gln Gln Gln Cys Xaa Asp Ala Lys Ser Gln Gln Lys Glu Gln Met
            20                  25                  30

Leu Leu Leu Glu Xaa Lys Ser Ala Ala Tyr Ser Gln Val Leu Leu Arg
        35                  40                  45

Cys Leu Thr Leu Leu Gln Arg Leu Leu Gln Glu His Arg Leu Lys Thr
    50                  55                  60

Gln Ser Glu Leu Asp Arg Ile Asn Ala Gln Tyr Leu Glu Val Lys Cys
65                  70                  75                  80

Gly Ala Met Ile Leu Lys Leu Arg Met Glu Glu Leu Lys Ile Leu Ser
                85                  90                  95

Asp Thr Tyr Thr Val Glu Lys Val Glu Val His Arg Leu Ile Arg Asp
            100                 105                 110

Arg Leu Glu Gly Ala Ile His Leu Gln Glu Gln Asp Met Glu Asn Ser
        115                 120                 125

Arg Gln Val Leu Asn Ser Tyr Glu Val Leu Gly Glu Glu Phe Asp Arg
    130                 135                 140

Leu Val Lys Glu Tyr Thr Val Leu Lys Gln Ala Thr Glu Asn Lys Arg
145                 150                 155                 160

Trp Ala Leu Gln Glu Phe Ser Lys Val Tyr Arg
                165                 170
```

844

```
<210> 896
<211> 99
<212> PRT
<213> Homo sapiens

<400> 896
Arg Glu Val Met Lys Leu Tyr Leu Phe Gln Trp Ala Leu Phe His Phe
 1               5                  10                  15

Thr Thr Val Pro Leu Phe Gly Ser Trp Ser Tyr Thr Leu Ile Phe Ser
                20                  25                  30

Ile Leu Leu Leu Asn Tyr Gln His Lys Ala Ile Tyr Leu Lys Asp Ser
            35                  40                  45

Val Tyr Pro Ala Ile Ala Leu Lys Ser Ser Arg Lys Arg Asn Pro Leu
        50                  55                  60

Thr Cys Ile Ser Phe Cys Arg Ala Ser Leu Phe Ser Phe Val Leu Cys
65                  70                  75                  80

Phe Leu Pro Phe Glu Ser Asp Ser Val Leu Val Arg Lys Thr Ser Trp
                85                  90                  95

Asp His Ser
```

```
<210> 897
<211> 289
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (255)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 897
Ala Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Arg Pro
 1               5                  10                  15

Arg Val Arg Gly Arg Ser Gln Leu Ser Ala His Gly Pro Ala Ser Phe
                20                  25                  30

Lys Met Ser Thr Val His Glu Ile Leu Cys Lys Leu Ser Leu Glu Gly
            35                  40                  45
```

845

```
Asp His Ser Thr Pro Pro Ser Ala Tyr Gly Ser Val Lys Ala Tyr Thr
    50              55              60

Asn Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Glu Thr Ala Ile Lys
65              70              75              80

Thr Lys Gly Val Asp Glu Val Thr Ile Val Asn Ile Leu Thr Asn Arg
            85              90              95

Ser Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr
            100             105             110

Lys Lys Glu Leu Ala Ser Ala Leu Lys Ser Ala Leu Ser Gly His Leu
        115             120             125

Glu Thr Val Ile Leu Gly Leu Leu Lys Thr Pro Ala Gln Tyr Asp Ala
    130             135             140

Ser Glu Leu Lys Ala Ser Met Lys Gly Leu Gly Thr Asp Glu Asp Ser
145             150             155             160

Leu Ile Glu Ile Ile Cys Ser Arg Thr Asn Gln Glu Leu Gln Glu Ile
            165             170             175

Asn Arg Val Tyr Lys Glu Met Tyr Lys Thr Asp Leu Glu Lys Asp Ile
            180             185             190

Ile Ser Asp Thr Ser Gly Asp Phe Arg Lys Leu Met Val Ala Leu Ala
        195             200             205

Lys Gly Arg Arg Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile
    210             215             220

Asp Gln Asp Ala Arg Asp Leu Tyr Asp Ala Gly Val Lys Arg Lys Gly
225             230             235             240

Thr Asp Val Pro Lys Trp Ile Ser Ile Met Thr Glu Arg Ser Xaa Pro
            245             250             255

Thr Ser Arg Lys Tyr Leu Ile Gly Thr Arg Val Thr Ala Leu Met Thr
            260             265             270

Cys Trp Lys Ala Ser Gly Lys Arg Leu Lys Glu Thr Trp Lys Met Leu
        275             280             285

Ser
```

```
<210> 898
<211> 232
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 898
Asn Pro Arg Gly Lys Val Ala Gly Phe Asp Leu Asp Gly Thr Leu Ile
 1               5                  10                  15

Thr Thr Arg Ser Gly Lys Val Phe Pro Thr Gly Pro Ser Asp Trp Arg
            20                  25                  30

Ile Leu Tyr Pro Glu Ile Pro Arg Lys Leu Arg Glu Leu Glu Ala Glu
            35                  40                  45

Gly Tyr Lys Leu Val Ile Phe Thr Asn Gln Met Ser Ile Gly Arg Gly
    50                  55                  60

Lys Leu Pro Ala Glu Glu Phe Lys Ala Lys Val Glu Ala Val Val Glu
65                  70                  75                  80

Lys Leu Gly Val Pro Phe Gln Val Leu Val Ala Thr His Ala Gly Leu
                85                  90                  95

Tyr Arg Lys Pro Val Thr Gly Met Trp Asp His Leu Gln Glu Gln Ala
            100                 105                 110

Asn Asp Gly Thr Pro Ile Ser Ile Gly Asp Ser Ile Phe Val Gly Asp
            115                 120                 125

Ala Ala Gly Arg Pro Ala Asn Trp Ala Pro Gly Arg Lys Lys Lys Asp
    130                 135                 140

Phe Ser Cys Ala Asp Arg Leu Phe Ala Leu Asn Leu Gly Leu Pro Phe
145                 150                 155                 160

Ala Thr Pro Glu Glu Phe Phe Leu Lys Trp Pro Ala Ala Gly Phe Glu
                165                 170                 175

Leu Pro Ala Phe Asp Pro Arg Thr Val Ser Arg Ser Gly Pro Leu Cys
            180                 185                 190

Leu Pro Glu Ser Arg Ala Leu Leu Ser Ala Thr Arg Xaa Trp Leu Ser
            195                 200                 205

Gln Trp Asp Ser Leu Gly Pro Gly Ser Pro Pro Phe Ser Arg Ser Thr
```

847

```
        210                215                220

Ser Cys Arg Pro Asp Met Ser Thr
225                230
```

```
<210> 899
<211> 218
<212> PRT
<213> Homo sapiens

<400> 899
Leu Arg Val Ala Arg Pro Asp Ala Ala Arg Ala Ala Pro Leu Ala Pro
  1               5                  10                  15

Ala Ala Ala Met Lys Ala Val Val Gln Arg Val Thr Arg Ala Ser Val
            20                  25                  30

Thr Val Gly Gly Glu Gln Ile Ser Ala Ile Gly Arg Gly Ile Cys Val
        35                  40                  45

Leu Leu Gly Ile Ser Leu Glu Asp Thr Gln Lys Glu Leu Glu His Met
      50                  55                  60

Val Arg Lys Ile Leu Asn Leu Arg Val Phe Glu Asp Glu Ser Gly Lys
 65                  70                  75                  80

His Trp Ser Lys Ser Val Met Asp Lys Gln Tyr Glu Ile Leu Cys Val
              85                  90                  95

Ser Gln Phe Thr Leu Gln Cys Val Leu Lys Gly Asn Lys Pro Asp Phe
            100                 105                 110

His Leu Ala Met Pro Thr Glu Gln Ala Glu Gly Phe Tyr Asn Ser Phe
          115                 120                 125

Leu Glu Gln Leu Arg Lys Thr Tyr Arg Pro Glu Leu Ile Lys Asp Gly
        130                 135                 140

Lys Phe Gly Ala Tyr Met Gln Val His Ile Gln Asn Asp Gly Pro Val
145                 150                 155                 160

Thr Ile Glu Leu Glu Ser Pro Ala Pro Gly Thr Ala Thr Ser Asp Pro
              165                 170                 175

Lys Gln Leu Ser Lys Leu Glu Lys Gln Gln Gln Arg Lys Glu Lys Thr
            180                 185                 190

Arg Ala Lys Gly Pro Ser Glu Phe Lys Gln Gly Lys Lys His Ser Pro
        195                 200                 205
```

848

```
Lys Arg Arg Pro Gln Cys Gln Gln Arg Gly
    210             215


<210> 900
<211> 152
<212> PRT
<213> Homo sapiens

<400> 900
Ser Lys Arg Gly His Val Pro Trp Gly Leu Glu Glu Ile Leu Asp Val
    1               5               10              15

Ile Glu Pro Ser Gln Phe Val Lys Ile Gln Glu Pro Leu Phe Lys Gln
                20              25              30

Ile Ala Lys Cys Val Ser Ser Pro His Phe Gln Val Ala Glu Arg Ala
        35              40              45

Leu Tyr Tyr Trp Asn Asn Glu Tyr Ile Met Ser Leu Ile Glu Glu Asn
    50              55              60

Ser Asn Val Ile Leu Pro Ile Met Phe Ser Ser Leu Tyr Arg Ile Ser
65              70              75              80

Lys Glu His Trp Asn Pro Ala Ile Val Ala Leu Val Tyr Asn Val Leu
                85              90              95

Lys Ala Phe Met Glu Met Asn Ser Thr Met Phe Asp Glu Leu Thr Ala
        100             105             110

Thr Tyr Lys Ser Asp Arg Gln Arg Glu Lys Lys Lys Glu Lys Glu Arg
        115             120             125

Glu Glu Leu Trp Lys Lys Leu Glu Asp Leu Glu Leu Lys Arg Gly Leu
    130             135             140

Arg Arg Asp Gly Ile Ile Pro Thr
145             150


<210> 901
<211> 261
<212> PRT
<213> Homo sapiens

<400> 901
Gly Leu Arg Glu Ile Ser Gly Arg Leu Ala Glu Met Pro Ala Asp Ser
```

849

```
1                   5                   10                  15

Gly Tyr Pro Ala Tyr Leu Gly Ala Arg Leu Ala Ser Phe Tyr Glu Arg
            20              25              30

Ala Gly Arg Val Lys Cys Leu Gly Asn Pro Glu Arg Glu Gly Ser Val
            35              40              45

Ser Ile Val Gly Ala Val Ser Pro Pro Gly Gly Asp Phe Ser Asp Pro
        50              55              60

Val Thr Ser Ala Thr Leu Gly Ile Val Gln Val Phe Trp Gly Leu Asp
65              70              75              80

Lys Lys Leu Ala Gln Arg Lys His Phe Pro Ser Val Asn Trp Leu Ile
                85              90              95

Ser Tyr Ser Lys Tyr Met Arg Ala Leu Asp Glu Tyr Tyr Asp Lys His
            100             105             110

Phe Thr Glu Phe Val Pro Leu Arg Thr Lys Ala Lys Glu Ile Leu Gln
            115             120             125

Glu Glu Glu Asp Leu Ala Glu Ile Val Gln Leu Val Gly Lys Ala Ser
    130             135             140

Leu Ala Glu Thr Asp Lys Ile Thr Leu Glu Val Ala Lys Leu Ile Lys
145             150             155             160

Asp Asp Phe Leu Gln Gln Asn Gly Tyr Thr Pro Tyr Asp Arg Phe Cys
            165             170             175

Pro Phe Tyr Lys Thr Val Gly Met Leu Ser Asn Met Ile Ala Phe Tyr
            180             185             190

Asp Met Ala Arg Arg Val Phe Glu Thr Thr Ala Gln Ser Asp Asn Lys
            195             200             205

Ile Thr Trp Ser Ile Ile Arg Glu His Met Gly Asp Ile Leu Tyr Lys
    210             215             220

Leu Ser Ser Met Lys Phe Lys Asp Pro Leu Lys Asp Gly Glu Ala Lys
225             230             235             240

Ile Lys Ser Asp Tyr Ala Gln Leu Leu Glu Asp Met Gln Asn Ala Phe
            245             250             255

Arg Ser Leu Glu Asp
            260
```

<210> 902
<211> 169
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 902
Phe Pro Gly Arg Pro Thr Arg Pro Arg Gly Ile Ser Val Ser Gly Gly
 1   5   10   15

Glu Ala Val Cys Pro Val Gln Trp Arg Leu Arg Lys Leu Ala Ala Ala
             20   25   30

Xaa Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr Arg Leu
         35   40   45

Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu Val Ile
     50   55   60

His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His Pro Gly
 65   70   75   80

Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser Glu Ser
                 85   90   95

Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu Lys Gln
             100   105   110

Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu Ser Gly
         115   120   125

Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp Ala Tyr
     130   135   140

Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu Tyr Arg
145   150   155   160

Tyr Tyr Thr Ser Glu Ser Lys Ser Ser
                 165

<210> 903
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 903
Pro Leu Cys Leu Ala Lys Asn Lys Asn Phe Leu Ile Leu Arg Xaa Asn
  1   5   10   15

Ile Gln Xaa Ile His Ile Lys Ser Leu Glu Asn Ile Ile Pro Phe Asp
              20   25   30

Ser Leu Ile Thr Leu Leu Glu Tyr Lys Glu Met Ile Leu Asn Ile Tyr
              35   40   45

Val Val Leu Trp Ser
          50

<210> 904
<211> 329
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 904
Arg Arg Xaa Ala Xaa Pro Arg Val Arg Trp Lys Ile Cys Gly Leu Ser
  1   5   10   15

Pro Thr Thr Thr Leu Ala Ile Tyr Phe Glu Val Val Asn Gln His Asn

852

```
              20                    25                    30
Ala Pro Ile Xaa Gln Gly Gly Arg Gly Ala Ile Gln Phe Val Thr Gln
        35                    40                    45

Tyr Gln His Ser Ser Gly Gln Arg Arg Ile Arg Val Thr Thr Ile Ala
    50                    55                    60

Arg Asn Trp Ala Asp Ala Gln Thr Gln Ile Gln Asn Ile Ala Ala Ser
65                    70                    75                    80

Phe Asp Gln Glu Ala Ala Ala Ile Leu Met Ala Arg Leu Ala Ile Tyr
                85                    90                    95

Arg Ala Glu Thr Glu Glu Gly Pro Asp Val Leu Arg Trp Leu Asp Arg
            100                   105                   110

Gln Leu Ile Arg Leu Cys Gln Lys Phe Gly Glu Tyr His Lys Asp Asp
        115                   120                   125

Pro Ser Ser Phe Arg Phe Ser Glu Thr Phe Ser Leu Tyr Pro Gln Phe
    130                   135                   140

Met Phe His Leu Arg Arg Ser Ser Phe Leu Gln Val Phe Asn Asn Ser
145                   150                   155                   160

Pro Asp Glu Ser Ser Tyr Tyr Arg His His Phe Met Arg Gln Asp Leu
            165                   170                   175

Thr Gln Ser Leu Ile Met Ile Gln Pro Ile Leu Tyr Ala Tyr Ser Phe
            180                   185                   190

Ser Gly Pro Pro Glu Pro Val Leu Leu Asp Ser Ser Ser Ile Leu Ala
        195                   200                   205

Asp Arg Ile Leu Leu Met Asp Thr Phe Phe Gln Ile Leu Ile Tyr His
    210                   215                   220

Gly Glu Thr Ile Ala Gln Trp Arg Lys Ser Gly Tyr Gln Asp Met Pro
225                   230                   235                   240

Glu Tyr Glu Asn Phe Arg His Leu Leu Gln Ala Pro Val Asp Asp Ala
            245                   250                   255

Gln Glu Ile Leu His Ser Arg Phe Pro Met Pro Arg Tyr Ile Asp Thr
        260                   265                   270

Glu His Gly Gly Ser Gln Ala Arg Phe Leu Leu Ser Lys Val Asn Pro
        275                   280                   285

Ser Gln Thr His Asn Asn Met Tyr Ala Trp Gly Gln Glu Ser Gly Ala
```

```
            290                  295                  300

Pro Ile Leu Thr Asp Asp Val Ser Leu Gln Val Phe Met Asp His Leu
305              310              315              320

Lys Lys Leu Ala Val Ser Ser Ala Ala
                325
```

<210> 905
<211> 264
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 905
```
Phe Leu Leu Pro Thr Leu Trp Phe Cys Ser Pro Ser Ala Lys Tyr Phe
  1             5                  10                  15

Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile Leu Phe Leu Ala Val Leu
              20                  25                  30

Ala Ile Pro Val Cys Ala Val Arg Gly Arg Asn Val Glu Asn Met Xaa
          35                  40                  45

Ile Leu Arg Leu Met Leu Leu His Ile Lys Tyr Leu Tyr Gly Ile Arg
      50                  55                  60

Val Glu Val Arg Gly Ala His His Phe Pro Pro Ser Gln Pro Tyr Val
65                  70                  75                  80

Val Val Ser Asn His Gln Ser Ser Leu Asp Leu Leu Gly Met Met Glu
              85                  90                  95

Val Leu Pro Gly Arg Cys Val Pro Ile Ala Lys Arg Glu Leu Leu Trp
              100                 105                 110

Ala Gly Ser Ala Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile
          115                 120                 125

Asp Arg Lys Arg Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala
          130                 135                 140

Gln Thr Leu Leu Thr Gln Asp Val Arg Val Trp Val Phe Pro Glu Gly
145                 150                 155                 160
```

```
Thr Arg Asn His Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe
            165                 170                 175

His Leu Ala Val Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser
            180                 185                 190

Ser Tyr Gln Asp Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly
        195                 200                 205

Gln Cys Gln Val Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr
    210                 215                 220

Pro Asp Asp Val Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu
225                 230                 235                 240

Thr Val Phe Arg Glu Ile Ser Thr Asp Gly Arg Gly Gly Gly Asp Tyr
            245                 250                 255

Leu Lys Lys Pro Gly Gly Gly Gly
            260
```

```
<210> 906
<211> 189
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 906
Xaa Xaa Pro Xaa Pro Glu Phe Pro Gly Arg Thr His Ala Ser Gly Leu
 1               5                 10                  15

Leu Arg Ser Arg Leu Ala Leu Arg Trp Leu Ser His Val Arg Arg Pro
            20                  25                  30

Ser Arg Arg Val Pro Arg Met Pro Arg Gly Ser Arg Ser Arg Thr Ser
```

```
              35                    40                    45

Arg Met Ala Pro Pro Ala Ser Arg Ala Pro Gln Met Arg Ala Ala Pro
    50                  55                  60

Arg Pro Ala Pro Val Ala Gln Pro Pro Ala Ala Ala Pro Pro Ser Ala
65                  70                  75                  80

Val Gly Ser Ser Ala Ala Ala Pro Arg Gln Pro Gly Leu Met Ala Gln
                85                  90                  95

Met Ala Thr Thr Ala Ala Gly Val Ala Val Gly Ser Ala Val Gly His
            100                 105                 110

Thr Leu Gly His Ala Ile Thr Gly Gly Phe Ser Gly Gly Ser Asn Ala
        115                 120                 125

Glu Pro Ala Arg Pro Asp Ile Thr Tyr Gln Glu Pro Gln Gly Thr Gln
    130                 135                 140

Pro Ala Gln Gln Gln Gln Pro Cys Leu Tyr Glu Ile Lys Gln Phe Leu
145                 150                 155                 160

Glu Cys Ala Gln Asn Gln Gly Asp Ile Lys Leu Cys Glu Gly Phe Asn
                165                 170                 175

Glu Val Leu Lys Gln Cys Arg Leu Ala Asn Gly Leu Ala
            180                 185
```

```
<210> 907
<211> 638
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
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856

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<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (427)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 907
Tyr Val Gln Gly Tyr Ser Leu Ser Gln Ala Asp Val Asp Ala Phe Arg
 1               5                  10                  15

Gln Leu Ser Ala Pro Pro Ala Asp Pro Gln Leu Phe His Val Ala Arg
            20                  25                  30

Trp Phe Arg His Ile Glu Ala Leu Leu Gly Xaa Pro Cys Gly Lys Gly
        35                  40                  45

Gln Pro Cys Xaa Leu Pro Ser Xaa Gln Arg Pro Ala Cys Ala Ala Pro
    50                  55                  60

Val Val Pro Ser Cys Trp Asp Pro Xaa Cys Arg Leu His Leu Tyr Asn
65              70                  75                  80

Ser Leu Thr Arg Asn Lys Glu Val Phe Ile Pro Gln Asp Gly Lys Lys
            85                  90                  95

Val Thr Trp Tyr Cys Cys Gly Pro Thr Val Tyr Asp Ala Ser His Met
            100                 105                 110

Gly His Ala Arg Ser Tyr Ile Ser Phe Asp Ile Leu Arg Arg Val Leu
        115                 120                 125

Lys Asp Tyr Phe Lys Phe Asp Val Phe Tyr Cys Met Asn Ile Thr Asp
    130                 135                 140

Ile Asp Asp Lys Ile Ile Lys Arg Ala Arg Gln Asn His Leu Phe Glu
145                 150                 155                 160

Gln Tyr Arg Glu Lys Arg Pro Glu Ala Ala Gln Leu Leu Glu Asp Val
            165                 170                 175

Gln Ala Ala Leu Lys Pro Phe Ser Val Lys Leu Asn Glu Thr Thr Asp
            180                 185                 190

Pro Asp Lys Lys Gln Met Leu Glu Arg Ile Gln His Ala Val Gln Leu
        195                 200                 205

Ala Thr Glu Pro Leu Glu Lys Ala Val Gln Ser Arg Leu Thr Gly Glu
```

```
                210                   215                   220

   Glu Val Asn Ser Cys Val Glu Val Leu Leu Glu Glu Ala Lys Asp Leu
   225                   230                   235                   240

   Leu Ser Asp Trp Leu Asp Ser Thr Leu Gly Cys Asp Val Thr Asp Asn
                   245                   250                   255

   Ser Ile Phe Ser Lys Leu Pro Lys Phe Trp Glu Gly Asp Phe His Arg
                   260                   265                   270

   Asp Met Glu Ala Leu Asn Val Leu Pro Pro Asp Val Leu Thr Arg Val
                   275                   280                   285

   Ser Glu Tyr Val Pro Glu Ile Val Asn Phe Val Gln Lys Ile Val Asp
           290                   295                   300

   Asn Gly Tyr Gly Tyr Val Ser Asn Gly Ser Val Tyr Phe Asp Thr Ala
   305                   310                   315                   320

   Lys Phe Ala Ser Ser Glu Lys His Ser Tyr Gly Lys Leu Val Pro Glu
                   325                   330                   335

   Ala Val Gly Asp Gln Lys Ala Leu Gln Glu Gly Glu Gly Asp Leu Ser
                   340                   345                   350

   Ile Ser Ala Asp Arg Leu Ser Glu Lys Arg Ser Pro Asn Asp Phe Ala
                   355                   360                   365

   Leu Trp Lys Ala Ser Lys Pro Gly Glu Pro Ser Trp Pro Cys Pro Trp
           370                   375                   380

   Gly Lys Gly Arg Pro Gly Trp His Ile Glu Cys Ser Ala Met Ala Gly
   385                   390                   395                   400

   Thr Leu Leu Gly Ala Ser Met Asp Ile His Gly Gly Gly Phe Asp Leu
                   405                   410                   415

   Arg Phe Pro His His Asp Asn Glu Leu Ala Xaa Ser Glu Ala Tyr Phe
                   420                   425                   430

   Glu Asn Asp Cys Trp Val Arg Tyr Phe Leu His Thr Gly His Leu Thr
           435                   440                   445

   Ile Ala Gly Cys Lys Met Ser Lys Ser Leu Lys Asn Phe Ile Thr Ile
           450                   455                   460

   Lys Asp Ala Leu Lys Lys His Ser Ala Arg Gln Leu Arg Leu Ala Phe
   465                   470                   475                   480

   Leu Met His Ser Trp Lys Asp Thr Leu Asp Tyr Ser Ser Asn Thr Met
```

858

```
                    485              490              495

Glu Ser Ala Leu Gln Tyr Glu Lys Phe Leu Asn Glu Phe Phe Leu Asn
             500              505              510

Val Lys Asp Ile Leu Arg Ala Pro Val Asp Ile Thr Gly Gln Phe Glu
             515              520              525

Lys Trp Gly Glu Glu Glu Ala Glu Leu Asn Lys Asn Phe Tyr Asp Lys
         530              535              540

Lys Thr Ala Ile His Lys Ala Leu Cys Asp Asn Val Asp Thr Arg Thr
545              550              555              560

Val Met Glu Glu Met Arg Ala Leu Val Ser Gln Cys Asn Leu Tyr Met
                 565              570              575

Ala Ala Arg Lys Ala Val Arg Lys Arg Pro Asn Gln Ala Leu Leu Glu
             580              585              590

Asn Ile Ala Leu Tyr Leu Thr His Met Leu Lys Ile Phe Gly Ala Val
             595              600              605

Glu Glu Asp Ser Ser Leu Gly Phe Pro Val Gly Gly Pro Gly Thr Ser
         610              615              620

Leu Ser Leu Glu Ala Thr Val Met Pro Tyr Leu Gln Val Leu
625              630              635
```

```
<210> 908
<211> 248
<212> PRT
<213> Homo sapiens

<400> 908
Ser His Pro Leu Arg Ser Arg Leu Pro Ser Ala Thr Gly Val Gly His
    1            5                10              15

Ala Leu Ala Arg Ser Phe Cys Arg His Leu Gly Ser Ala Phe Pro Ala
             20              25              30

Gln Asn Ala Arg Arg Ser Thr Glu Thr Val Pro Ala Thr Glu Gln Glu
         35              40              45

Leu Pro Gln Pro Gln Ala Glu Thr Gly Ser Gly Thr Glu Ser Asp Ser
    50              55              60

Asp Glu Ser Val Pro Glu Leu Glu Glu Gln Asp Ser Thr Gln Ala Thr
65              70              75              80
```

```
Thr Gln Gln Ala Gln Leu Ala Ala Ala Ala Glu Ile Asp Glu Glu Pro
                85              90              95

Val Ser Lys Ala Lys Gln Ser Arg Ser Glu Lys Lys Ala Arg Lys Ala
            100             105             110

Met Ser Lys Leu Gly Leu Arg Gln Val Thr Gly Val Thr Arg Val Thr
        115             120             125

Ile Arg Lys Ser Lys Asn Ile Leu Phe Val Ile Thr Lys Pro Asp Val
    130             135             140

Tyr Lys Ser Pro Ala Ser Asp Thr Tyr Ile Val Phe Gly Glu Ala Lys
145             150             155             160

Ile Glu Asp Leu Ser Gln Gln Ala Gln Leu Ala Ala Ala Glu Lys Phe
            165             170             175

Lys Val Gln Gly Glu Ala Val Ser Asn Ile Gln Glu Asn Thr Gln Thr
            180             185             190

Pro Thr Val Gln Glu Glu Ser Glu Glu Glu Glu Val Asp Glu Thr Gly
        195             200             205

Val Glu Val Lys Asp Ile Glu Leu Val Met Ser Gln Ala Asn Val Ser
    210             215             220

Arg Ala Lys Ala Val Arg Ala Leu Lys Asn Asn Ser Asn Asp Ile Val
225             230             235             240

Asn Ala Ile Met Glu Leu Thr Met
                245
```

<210> 909
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 909
Gln Gly Cys Cys Tyr Gly Ala Gly Arg Arg Val Ala Arg Leu Leu Ala
1   5   10   15

Pro Leu Met Trp Arg Arg Ala Val Ser Ser Val Ala Gly Ser Ala Val
            20   25   30

Gly Ala Glu Pro Gly Leu Arg Leu Leu Ala Val Gln Arg Xaa Pro Val
        35   40   45

Glu Gln Arg Ser Ala Gly Leu Ala Arg Pro Gln Thr Leu Ser Ala Ala
    50   55   60

Cys Thr Ala Lys Pro Gly Leu Glu Glu Arg Ala Glu Gly Thr Val Asn
65   70   75   80

Glu Gly Arg Pro Glu Ser Asp Ala Ala Asp His Thr Gly Pro Lys Phe
            85   90   95

Asp Ile Asp Met Met Val Ser Leu Leu Arg Gln Glu Asn Ala Arg Asp
            100   105   110

Ile Cys Val Ile Gln Val Pro Pro Glu Met Arg Tyr Thr Asp Tyr Phe
        115   120   125

Val Ile Val Ser Gly Thr Ser Thr Arg His Leu His Ala Met Ala Phe
    130   135   140

Tyr Val Val Lys Met Tyr Lys His Leu Lys Cys Lys Arg Xaa Pro Ser
145   150   155   160

Cys

<210> 910
<211> 487
<212> PRT
<213> Homo sapiens

<400> 910
Lys Ala Ala Ser Gly Pro Ala Thr Ser Ile Thr Gly Val Thr Met Gly
1   5   10   15

Ala Val Leu Gly Val Phe Ser Leu Ala Ser Trp Val Pro Cys Leu Cys
            20   25   30

Ser Gly Ala Ser Cys Leu Leu Cys Ser Cys Cys Pro Asn Ser Lys Asn
        35   40   45

```
Ser Thr Val Thr Arg Leu Ile Tyr Ala Phe Ile Leu Leu Leu Ser Thr
     50                  55                  60

Val Val Ser Tyr Ile Met Gln Arg Lys Glu Met Glu Thr Tyr Leu Lys
 65                  70                  75                  80

Lys Ile Pro Gly Phe Cys Glu Gly Gly Phe Lys Ile His Glu Ala Asp
                 85                  90                  95

Ile Asn Ala Asp Lys Asp Cys Asp Val Leu Val Gly Tyr Lys Ala Val
             100                 105                 110

Tyr Arg Ile Ser Phe Ala Met Ala Ile Phe Phe Phe Val Phe Ser Leu
         115                 120                 125

Leu Met Phe Lys Val Lys Thr Ser Lys Asp Leu Arg Ala Ala Val His
     130                 135                 140

Asn Gly Phe Trp Phe Phe Lys Ile Ala Ala Leu Ile Gly Ile Met Val
145                 150                 155                 160

Gly Ser Phe Tyr Ile Pro Gly Gly Tyr Phe Ser Ser Val Trp Phe Val
                 165                 170                 175

Val Gly Met Ile Gly Ala Ala Leu Phe Ile Leu Ile Gln Leu Val Leu
             180                 185                 190

Leu Val Asp Phe Ala His Ser Trp Asn Glu Ser Trp Val Asn Arg Met
         195                 200                 205

Glu Glu Gly Asn Pro Arg Leu Trp Tyr Ala Ala Leu Leu Ser Phe Thr
     210                 215                 220

Ser Ala Phe Tyr Ile Leu Ser Ile Ile Cys Val Gly Leu Leu Tyr Thr
225                 230                 235                 240

Tyr Tyr Thr Lys Pro Asp Gly Cys Thr Glu Asn Lys Phe Phe Ile Ser
                 245                 250                 255

Ile Asn Leu Ile Leu Cys Val Val Ala Ser Ile Ile Ser Ile His Pro
             260                 265                 270

Lys Ile Gln Glu His Gln Pro Arg Ser Gly Leu Leu Gln Ser Ser Leu
         275                 280                 285

Ile Thr Leu Tyr Thr Met Tyr Leu Thr Trp Ser Ala Met Ser Asn Glu
     290                 295                 300

Pro Asp Arg Ser Cys Asn Pro Asn Leu Met Ser Phe Ile Thr Arg Ile
305                 310                 315                 320
```

862

```
Thr Ala Pro Thr Leu Ala Pro Gly Asn Ser Thr Ala Val Val Pro Thr
                325                 330                 335

Pro Thr Pro Pro Ser Lys Ser Gly Ser Leu Leu Asp Ser Asp Asn Phe
                340                 345                 350

Ile Gly Leu Phe Val Phe Val Leu Cys Leu Leu Tyr Ser Ser Ile Arg
                355                 360                 365

Thr Ser Thr Asn Ser Gln Val Asp Lys Leu Thr Leu Ser Gly Ser Asp
    370                 375                 380

Ser Val Ile Leu Gly Asp Thr Thr Thr Ser Gly Ala Ser Asp Glu Glu
385                 390                 395                 400

Asp Gly Gln Pro Arg Arg Ala Val Asp Asn Glu Lys Glu Gly Val Gln
                405                 410                 415

Tyr Ser Tyr Ser Leu Phe His Leu Met Leu Cys Leu Ala Ser Leu Tyr
                420                 425                 430

Ile Met Met Thr Leu Thr Ser Trp Tyr Ser Pro Asp Ala Lys Phe Gln
                435                 440                 445

Ser Met Thr Ser Lys Trp Pro Ala Val Trp Val Lys Ile Ser Ser Ser
    450                 455                 460

Trp Val Cys Leu Leu Leu Tyr Val Trp Thr Leu Val Ala Pro Leu Val
465                 470                 475                 480

Leu Thr Ser Arg Asp Phe Ser
                485
```

```
<210> 911
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 911
Asp Pro Arg Val Arg His Arg Gly Asn Lys Val Val Lys Lys Lys Val
  1               5                  10                  15

Leu Val Arg Cys Arg His Phe Ile Cys Pro His Ser Leu Arg Leu Ser
            20                  25                  30
```

```
Gln Ser Phe Gln Gln Arg Tyr Val Gly Pro Glu His Pro Glu Phe Thr
         35              40              45

Thr Ser Val Val Arg Arg Ala Thr Met Arg Arg Ala Leu Gly Arg Ile
     50              55              60

Cys His Phe Gln Xaa Val Arg Gly Thr Ala Ser Leu Gly Glu Gly Ala
 65              70              75              80

Leu Gly Cys Asp Ser Arg Thr Cys Lys Ala Ala Ser Gly Leu Trp Arg
             85              90              95

Gly Arg
```

```
<210> 912
<211> 206
<212> PRT
<213> Homo sapiens

<400> 912
Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
 1           5               10              15

Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Ser Leu Leu Ile
             20              25              30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Asp Thr Val Asp Val Ala Met
         35              40              45

Pro Leu Asn Phe Thr Gly Gly Gln Leu His Ser Arg Met Phe Gln Asn
     50              55              60

Phe Pro Thr Glu Leu Leu Leu Ser Leu Ala Val Glu Pro Leu Thr Ala
 65              70              75              80

Asn Phe His Lys Trp Ser Leu Ser Val Lys Asn Phe Thr Met Asn Glu
             85              90              95

Lys Leu Lys Lys Phe Phe Asn Val Leu Thr Thr Asn Thr Asp Gly Lys
             100             105             110

Ile Glu Phe Ile Ser Thr Met Glu Gly Tyr Lys Tyr Pro Val Tyr Gly
             115             120             125

Val Gln Trp His Pro Glu Lys Ala Pro Tyr Glu Trp Lys Asn Leu Asp
     130             135             140
```

```
Gly Ile Ser His Ala Pro Asn Ala Val Lys Thr Ala Phe Tyr Leu Ala
145                 150                 155                 160

Glu Phe Phe Val Asn Glu Ala Arg Lys Asn Asn His His Phe Lys Ser
                165                 170                 175

Glu Ser Glu Glu Glu Lys Ala Leu Ile Tyr Gln Phe Ser Pro Ile Tyr
            180                 185                 190

Thr Gly Asn Ile Ser Ser Phe Gln Gln Cys Tyr Ile Phe Asp
            195                 200                 205
```

<210> 913
<211> 91
<212> PRT
<213> Homo sapiens

<400> 913
```
Phe Ser Gly Pro Cys Pro Val Asn Thr Leu Gly Trp Glu Val Ser Ser
 1               5                  10                  15

Phe Ser Pro Leu Leu Ser Ser Cys Leu Asn Met Val Arg Thr Lys Ala
            20                  25                  30

Asp Ser Val Pro Gly Thr Tyr Arg Lys Val Val Ala Ala Arg Ala Pro
            35                  40                  45

Arg Lys Val Leu Gly Ser Ser Thr Ser Ala Thr Asn Ser Thr Ser Val
      50                  55                  60

Ser Ser Arg Lys Glu His Val Leu Cys Asn Leu Ile Thr Gln Met Met
 65                 70                  75                  80

Lys Lys Asn Arg Thr Phe Ser Phe Ile Phe Glu
                85                  90
```

<210> 914
<211> 178
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

```
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 914
Arg Glu Leu Ser Thr Arg Gln Arg Ser Gln Ala Lys Pro Pro Ala Ser
 1               5                  10                  15

Met Ala Ser Glu Phe Lys Lys Lys Leu Phe Trp Arg Ala Val Val Ala
               20                  25                  30

Glu Phe Leu Ala Thr Thr Leu Phe Val Phe Ile Ser Ile Gly Ser Ala
           35                  40                  45

Leu Gly Phe Lys Tyr Pro Val Gly Asn Asn Gln Thr Ala Val Gln Asp
       50                  55                  60

Asn Val Lys Val Ser Leu Ala Phe Gly Leu Ser Ile Ala Thr Leu Ala
 65                  70                  75                  80

Gln Ser Val Gly His Ile Ser Gly Ala His Leu Asn Pro Ala Val Thr
               85                  90                  95

Leu Gly Leu Leu Leu Ser Cys Gln Ile Ser Ile Phe Arg Ala Leu Met
           100                 105                 110

Tyr Ile Ile Ala Gln Cys Val Gly Ala Ile Val Ala Thr Ala Ile Leu
           115                 120                 125

Ser Gly Ile Xaa Ser Ser Leu Thr Gly Asn Ser Leu Gly Arg Asn Asp
       130                 135                 140

Leu Ala Xaa Gly Val Asn Phe Gly Pro Xaa Pro Gly His Arg Asp His
145                 150                 155                 160

Arg Asp Pro Pro Ala Gly Ala Met Arg Ala Gly Tyr Tyr Arg Pro Glu
               165                 170                 175

Ala Pro


<210> 915
<211> 377
<212> PRT
```

<213> Homo sapiens

<220>
<221> SITE
<222> (355)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 915
Val Cys Ala His Gly Gln Gly Leu Leu Arg Tyr Phe Tyr Ser Arg Arg
 1   5   10   15

Ile Asp Ile Thr Leu Ser Ser Val Lys Cys Phe His Lys Leu Ala Ser
                20   25   30

Ala Tyr Gly Ala Arg Gln Leu Gln Gly Tyr Cys Ala Ser Leu Phe Ala
        35   40   45

Ile Leu Leu Pro Gln Asp Pro Ser Phe Gln Met Pro Leu Asp Leu Tyr
    50   55   60

Ala Tyr Ala Val Ala Thr Gly Asp Ala Leu Leu Glu Lys Leu Cys Leu
65   70   75   80

Gln Phe Leu Ala Trp Asn Phe Glu Ala Leu Thr Gln Ala Glu Ala Trp
            85   90   95

Pro Ser Val Pro Thr Asp Leu Leu Gln Leu Leu Leu Pro Arg Ser Asp
            100   105   110

Leu Ala Val Pro Ser Glu Leu Ala Leu Leu Lys Ala Val Asp Thr Trp
        115   120   125

Ser Trp Gly Glu Arg Ala Ser His Glu Glu Val Glu Gly Leu Val Glu
    130   135   140

Lys Ile Arg Phe Pro Met Met Leu Pro Glu Glu Leu Phe Glu Leu Gln
145   150   155   160

Phe Asn Leu Ser Leu Tyr Trp Ser His Glu Ala Leu Phe Gln Lys Lys
                165   170   175

Thr Leu Gln Ala Leu Glu Phe His Thr Val Pro Phe Gln Leu Leu Ala
            180   185   190

Arg Tyr Lys Gly Leu Asn Leu Thr Glu Asp Thr Tyr Lys Pro Arg Ile
        195   200   205

Tyr Thr Ser Pro Thr Trp Ser Ala Phe Val Thr Asp Ser Ser Trp Ser
    210   215   220

Ala Arg Lys Ser Gln Leu Val Tyr Gln Ser Arg Arg Gly Pro Leu Val

867

                    225   230   235   240

    Lys Tyr Ser Ser Asp Tyr Phe Gln Ala Pro Ser Asp Tyr Arg Tyr Tyr
                        245   250   255

    Pro Tyr Gln Ser Phe Gln Thr Pro Gln His Pro Ser Phe Leu Phe Gln
                        260   265   270

    Asp Lys Arg Val Ser Trp Ser Leu Val Tyr Leu Pro Thr Ile Gln Ser
                    275   280   285

    Cys Trp Asn Tyr Gly Phe Ser Cys Ser Ser Asp Glu Leu Pro Val Leu
                290   295   300

    Gly Leu Thr Lys Ser Gly Gly Ser Asp Arg Thr Ile Ala Tyr Glu Asn
    305   310   315   320

    Lys Ala Leu Met Leu Cys Glu Gly Leu Phe Val Ala Asp Val Thr Asp
                    325   330   335

    Phe Glu Gly Trp Lys Ala Ala Ile Pro Ser Ala Leu Asp Thr Asn Ser
                340   345   350

    Ser Lys Xaa Thr Ser Ser Phe Pro Cys Pro Ala Gly Thr Ser Thr Ala
                355   360   365

    Ser Ala Arg Ser Ser Ala Pro Ser Thr
        370   375

<210> 916
<211> 100
<212> PRT
<213> Homo sapiens

<400> 916
Arg Val Gln Arg Asp Thr Cys Leu Pro Pro Met Ser Leu Ser Phe His
    1   5   10   15

Leu Pro Ser Arg Arg Met Lys Asn Pro Ser Ile Val Gly Val Leu Cys
                20   25   30

Thr Asp Ser Gln Gly Leu Asn Leu Gly Cys Arg Gly Thr Leu Ser Asp
            35   40   45

Glu His Ala Gly Val Ile Ser Val Leu Ala Gln Gln Ala Ala Lys Leu
        50   55   60

Thr Ser Asp Pro Thr Asp Ile Pro Val Val Cys Leu Glu Ser Asp Asn
    65   70   75   80

```
Gly Asn Ile Met Ile Gln Lys His Asp Gly Ile Thr Val Ala Val His
                85              90              95

Lys Met Ala Ser
            100
```

```
<210> 917
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (240)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (242)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 917
Leu Pro Pro Arg Ser Val Gly Gly Leu Gln Lys Met Arg Arg Lys Leu
  1           5              10              15

Gly Leu Val Gln Val Glu Leu Glu Glu Asp Gly Ala Leu Val Ser Lys
            20              25              30
```

```
Leu Leu Glu Thr Met His Leu Thr Gly Ala Asp Xaa Thr Asn Thr Phe
        35              40              45

Tyr Leu Leu Ser Ser Phe Pro Val Glu Leu Glu Ser Pro Gly Leu Xaa
        50              55              60

Glu Phe Leu Ala Arg Leu Met Glu Gln Cys Ala Ser Leu Glu Glu Leu
65              70              75                      80

Arg Leu Ala Phe Arg Pro Xaa Met Asp Pro Arg Gln Leu Ser Met Met
                85              90              95

Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met Gly Thr
            100             105             110

Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln Ser Arg
        115             120             125

Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln Gly His
    130             135                 140

Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Asp Lys Asp Leu
145             150             155                     160

Glu Gly Ala Gly Asp Ala Ala Ala Trp Gln Ala Xaa Ala Arg Ala Arg
                165             170             175

Asp Ala Arg Gln Gln Pro Glu Val Arg Ala Glu Glu Leu His Ser Arg
            180             185             190

Arg Met Pro Phe Glu Val Ala Glu Arg Gly Asp Phe Ser Glu Val Arg
        195             200             205

Arg Val Leu Lys Leu Phe Glu Thr Leu Tyr His Cys Glu Ala Gly Ala
    210             215             220

Ala Thr Arg Arg Pro Arg Pro Arg Glu Ala Asp Gly Gly Gly Arg Xaa
225             230             235             240

Gly Xaa Phe Leu Thr
            245
```

<210> 918
<211> 44
<212> PRT
<213> Homo sapiens

<400> 918
Asn Ser Ala Arg Arg Ile Ser Leu Lys Glu Gly Glu Gly Lys Thr Asp

```
            1                5                10               15
Phe Leu Cys Gly Thr Lys Thr Lys Pro Ser Val Ser Leu Cys Glu Gln
            20               25               30

Arg Cys Lys Lys Glu Glu Thr Gln Phe Thr His Gly
            35               40
```

<210> 919
<211> 160
<212> PRT
<213> Homo sapiens

<400> 919
```
Phe Gly Thr Arg Val Thr Ser Gly Gly Ser Arg Asp Ala Val Pro Gly
    1                5                10               15

Ala Glu Pro Pro Lys Met Ala Val Cys Ile Ala Val Ile Ala Lys Glu
                20               25               30

Asn Tyr Pro Leu Tyr Ile Arg Ser Thr Pro Thr Glu Asn Glu Leu Lys
            35               40               45

Phe His Tyr Met Val His Thr Ser Leu Asp Val Val Asp Glu Lys Ile
        50               55               60

Ser Ala Met Gly Lys Ala Leu Val Asp Gln Arg Glu Leu Tyr Leu Gly
    65               70               75               80

Leu Leu Tyr Pro Thr Glu Asp Tyr Lys Val Tyr Gly Tyr Val Thr Asn
                85               90               95

Ser Lys Val Lys Phe Val Met Val Val Asp Ser Ser Asn Thr Ala Leu
                100              105              110

Arg Asp Asn Glu Ile Arg Ser Met Phe Arg Lys Leu His Asn Ser Tyr
            115              120              125

Thr Asp Val Met Cys Asn Pro Phe Tyr Asn Pro Gly Asp Arg Ile Gln
        130              135              140

Ser Arg Ala Phe Asp Asn Met Val Thr Ser Met Met Ile Gln Val Cys
145              150              155              160
```

<210> 920
<211> 40
<212> PRT
<213> Homo sapiens

<400> 920
Leu Ala Phe Phe Leu Thr Ser Glu Gly Glu Lys Lys Val Ala Thr Tyr
1   5   10   15

Met Phe Glu Lys Pro Leu Lys Ser Thr Gln Ser Lys Asp Phe Met Leu
            20   25   30

Gln Phe Gly His Met Leu Arg Val
        35   40

<210> 921
<211> 372
<212> PRT
<213> Homo sapiens

<400> 921
Leu Leu Gly Pro Ala Gly Gln Arg Ser His Ala Ala Pro Met Arg Pro
1   5   10   15

Leu Pro Pro Val Gly Asp Val Arg Leu Glu Leu Ser Pro Pro Pro Pro
            20   25   30

Leu Leu Pro Val Pro Val Val Ser Gly Ser Pro Val Gly Ser Ser Gly
        35   40   45

Arg Leu Met Ala Ser Ser Ser Ser Leu Val Pro Asp Arg Leu Arg Leu
    50   55   60

Pro Leu Cys Phe Leu Gly Val Phe Val Cys Tyr Phe Tyr Tyr Gly Ile
65   70   75   80

Leu Gln Glu Lys Ile Thr Arg Gly Lys Tyr Gly Glu Gly Ala Lys Gln
                85   90   95

Glu Thr Phe Thr Phe Ala Leu Thr Leu Val Phe Ile Gln Cys Val Ile
            100   105   110

Asn Ala Val Phe Ala Lys Ile Leu Ile Gln Phe Phe Asp Thr Ala Arg
        115   120   125

Val Asp Arg Thr Arg Ser Trp Leu Tyr Ala Ala Cys Ser Ile Ser Tyr
    130   135   140

Leu Gly Ala Met Val Ser Ser Asn Ser Ala Leu Gln Phe Val Asn Tyr

```
        ·145                    150                    155                    160
     Pro Thr Gln Val Leu Gly Lys Ser Cys Lys Pro Ile Pro Val Met Leu
                     165                    170                    175

     Leu Gly Val Thr Leu Leu Lys Lys Lys Tyr Pro Leu Ala Lys Tyr Leu
                     180                    185                    190

     Cys Val Leu Leu Ile Val Ala Gly Val Ala Leu Phe Met Tyr Lys Pro
                     195                    200                    205

     Lys Lys Val Val Gly Ile Glu Glu His Thr Val Gly Tyr Gly Glu Leu
             210                    215                    220

     Leu Leu Leu Leu Ser Leu Thr Leu Asp Gly Leu Thr Gly Val Ser Gln
     225                    230                    235                    240

     Asp His Met Arg Ala His Tyr Gln Thr Gly Ser Asn His Met Met Leu
                     245                    250                    255

     Asn Ile Asn Leu Trp Ser Thr Leu Leu Leu Gly Met Gly Ile Leu Phe
                     260                    265                    270

     Thr Gly Glu Leu Trp Glu Phe Leu Ser Phe Ala Glu Arg Tyr Pro Ala
                     275                    280                    285

     Ile Ile Tyr Asn Ile Leu Leu Phe Gly Leu Thr Ser Ala Leu Gly Gln
             290                    295                    300

     Ser Phe Ile Phe Met Thr Val Val Tyr Phe Gly Pro Leu Thr Cys Ser
     305                    310                    315                    320

     Ile Ile Thr Thr Thr Arg Lys Phe Phe Thr Ile Leu Ala Ser Val Ile
                     325                    330                    335

     Leu Phe Ala Asn Pro Ile Ser Pro Met Gln Trp Val Gly Thr Val Leu
                     340                    345                    350

     Val Phe Leu Gly Leu Gly Leu Asp Ala Lys Phe Gly Lys Gly Ala Lys
             355                    360                    365

     Lys Thr Ser His
             370
```

<210> 922
<211> 363
<212> PRT
<213> Homo sapiens

```
<400> 922
Pro Ala Arg Thr Met Phe Tyr Ala His Phe Val Leu Ser Lys Arg Gly
 1               5                  10                  15

Pro Leu Ala Lys Ile Trp Leu Ala Ala His Trp Asp Lys Lys Leu Thr
             20                  25                  30

Lys Ala His Val Phe Glu Cys Asn Leu Glu Ser Ser Val Glu Ser Ile
         35                  40                  45

Ile Ser Pro Lys Val Lys Met Ala Leu Arg Thr Ser Gly His Leu Leu
     50                  55                  60

Leu Gly Val Val Arg Ile Tyr His Arg Lys Ala Lys Tyr Leu Leu Ala
 65                  70                  75                  80

Asp Cys Asn Glu Ala Phe Ile Lys Ile Lys Met Ala Phe Arg Pro Gly
                 85                  90                  95

Val Val Asp Leu Pro Glu Glu Asn Arg Glu Ala Ala Tyr Asn Ala Ile
             100                 105                 110

Thr Leu Pro Glu Glu Phe His Asp Phe Asp Gln Pro Leu Pro Asp Leu
         115                 120                 125

Asp Asp Ile Asp Val Ala Gln Gln Phe Ser Leu Asn Gln Ser Arg Val
     130                 135                 140

Glu Glu Ile Thr Met Arg Glu Glu Val Gly Asn Ile Ser Ile Leu Gln
145                 150                 155                 160

Glu Asn Asp Phe Gly Asp Phe Gly Met Asp Asp Arg Glu Ile Met Arg
             165                 170                 175

Glu Gly Ser Ala Phe Glu Asp Asp Asp Met Leu Val Ser Thr Thr Thr
             180                 185                 190

Ser Asn Leu Leu Leu Glu Ser Glu Gln Ser Thr Ser Asn Leu Asn Glu
         195                 200                 205

Lys Ile Asn His Leu Glu Tyr Glu Asp Gln Tyr Lys Asp Asp Asn Phe
     210             215                 220

Gly Glu Gly Asn Asp Gly Gly Ile Leu Asp Asp Lys Leu Ile Ser Asn
225                 230                 235                 240

Asn Asp Gly Gly Ile Phe Asp Asp Pro Pro Ala Leu Ser Glu Ala Gly
             245                 250                 255

Val Met Leu Pro Glu Gln Pro Ala His Asp Asp Met Asp Glu Asp Asp
             260                 265                 270
```

874

Asn Val Ser Met Gly Gly Pro Asp Ser Pro Asp Ser Val Asp Pro Val
        275   280   285

Glu Pro Met Pro Thr Met Thr Asp Gln Thr Thr Leu Val Pro Asn Glu
        290   295   300

Glu Glu Ala Phe Ala Leu Glu Pro Ile Asp Ile Thr Val Lys Glu Thr
305   310   315   320

Lys Ala Lys Arg Lys Arg Lys Leu Ile Val Asp Ser Val Lys Glu Leu
            325   330   335

Asp Ser Lys Thr Ile Arg Ala Gln Leu Ser Asp Tyr Ser Asp Ile Val
            340   345   350

Thr Thr Leu Asp Leu Ala Pro Pro Pro Arg Asn
        355   360

<210> 923
<211> 296
<212> PRT
<213> Homo sapiens

<400> 923
Val Ala Val Ile Trp Ala Tyr Trp Leu Gly Leu Lys Val Arg Arg Glu
  1   5   10   15

Tyr Arg Lys Phe Phe Arg Ala Asn Ala Gly Lys Lys Ile Tyr Glu Phe
            20   25   30

Thr Leu Gln Arg Ile Val Gln Lys Tyr Phe Leu Glu Met Lys Asn Lys
        35   40   45

Met Pro Ser Leu Ser Pro Ile Asp Lys Asn Trp Pro Ser Arg Pro Tyr
    50   55   60

Leu Phe Leu Asp Ser Thr His Lys Glu Leu Lys Arg Ile Phe His Leu
65   70   75   80

Trp Arg Cys Lys Lys Tyr Arg Asp Gln Phe Thr Asp Gln Gln Lys Leu
            85   90   95

Ile Tyr Glu Glu Lys Leu Glu Ala Ser Glu Leu Phe Lys Asp Lys Lys
            100   105   110

Ala Leu Tyr Pro Ser Ser Val Gly Gln Pro Phe Gln Gly Ala Tyr Leu
            115   120   125

```
Glu Ile Asn Lys Asn Pro Lys Tyr Lys Lys Leu Lys Asp Ala Ile Glu
    130                 135             140

Glu Lys Ile Ile Ile Ala Glu Val Val Asn Lys Ile Asn Arg Ala Asn
145             150             155                 160

Gly Lys Ser Thr Ser Arg Ile Phe Leu Leu Thr Asn Asn Asn Leu Leu
            165             170                 175

Leu Ala Asp Gln Lys Ser Gly Gln Ile Lys Ser Glu Val Pro Leu Val
            180             185             190

Asp Val Thr Lys Val Ser Met Ser Ser Gln Asn Asp Gly Phe Phe Ala
        195             200             205

Val His Leu Lys Glu Gly Ser Glu Ala Ala Ser Lys Gly Asp Phe Leu
    210             215             220

Phe Ser Ser Asp His Leu Ile Glu Met Ala Thr Lys Leu Tyr Arg Thr
225             230             235                 240

Thr Leu Ser Gln Thr Lys Gln Lys Leu Asn Ile Glu Ile Ser Asp Glu
            245             250             255

Phe Leu Val Gln Phe Arg Gln Asp Lys Val Cys Val Lys Phe Ile Gln
            260             265             270

Gly Asn Gln Lys Asn Gly Ser Val Pro Thr Cys Lys Arg Lys Asn Asn
        275             280             285

Arg Leu Leu Glu Val Ala Val Pro
    290             295
```

```
<210> 924
<211> 91
<212> PRT
<213> Homo sapiens

<400> 924
His Phe Ser Ile Asn Tyr Asn Gln Lys Ser Asp Leu Leu Lys Glu Lys
1               5               10                  15

Ser Asp Cys Lys Ser Phe Gln Gly Gln Thr Ala Thr Glu Pro Pro Thr
            20              25              30

Pro Lys Gln Glu Thr Leu Val Lys Val Gln Glu Ala Arg Arg Phe Ser
        35              40              45

Pro Thr Lys Val Gln Leu Gly Asn Asp Ala Glu Arg Met Thr Thr Thr
```

```
              50                  55                  60

      Cys Asn Ser Arg Lys Met Leu Ala Ser Arg Val Arg Val Thr Ser Glu
      65                  70                  75                  80

      Cys His Lys Ser Ser Leu Ser His Cys Leu Ile
                          85                  90
```

<210> 925
<211> 159
<212> PRT
<213> Homo sapiens

<400> 925

```
Asn Ser Ala Arg Ala Gly Gly Arg Ala Val Leu Ser Gly Glu Pro Glu
  1               5                  10                  15

Ala Asn Met Asp Gln Glu Thr Val Gly Asn Val Val Leu Leu Ala Ile
              20                  25                  30

Val Thr Leu Ile Ser Val Val Gln Asn Gly Phe Phe Ala His Lys Val
          35                  40                  45

Glu His Glu Ser Arg Thr Gln Asn Gly Arg Ser Phe Gln Arg Thr Gly
      50                  55                  60

Thr Leu Ala Phe Glu Arg Val Tyr Thr Ala Asn Gln Asn Cys Val Asp
 65                  70                  75                  80

Ala Tyr Pro Thr Phe Leu Ala Val Leu Trp Ser Ala Gly Leu Leu Cys
              85                  90                  95

Ser Gln Val Pro Ala Ala Phe Ala Gly Leu Met Tyr Leu Phe Val Arg
              100                 105                 110

Gln Lys Tyr Phe Val Gly Tyr Leu Gly Glu Arg Thr Gln Ser Thr Pro
          115                 120                 125

Gly Tyr Ile Phe Gly Glu Thr His His Thr Leu Pro Val Pro His Val
      130                 135                 140

Arg Cys Trp His Ile Gln Leu Leu Pro His Leu Leu Phe Arg Lys
145                 150                 155
```

<210> 926
<211> 303
<212> PRT

<213> Homo sapiens

<400> 926

Gly Ser Leu Ala Ser Pro Pro Ser Leu Gly Ser Met Gly Glu Lys Ser
 1   5   10   15

Glu Asn Cys Gly Val Pro Glu Asp Leu Leu Asn Gly Leu Lys Val Thr
            20   25   30

Asp Thr Gln Glu Ala Glu Cys Ala Gly Pro Pro Val Pro Asp Pro Lys
        35   40   45

Asn Gln His Ser Gln Ser Lys Leu Leu Arg Asp Asp Glu Ala His Leu
        50   55   60

Gln Glu Asp Gln Gly Glu Glu Glu Cys Phe His Asp Cys Ser Ala Ser
65   70   75   80

Phe Glu Glu Glu Pro Gly Ala Asp Lys Val Glu Asn Lys Ser Asn Glu
                85   90   95

Asp Val Asn Ser Ser Glu Leu Asp Glu Glu Tyr Leu Ile Glu Leu Glu
            100   105   110

Lys Asn Met Ser Asp Glu Glu Lys Gln Lys Arg Arg Glu Glu Ser Thr
        115   120   125

Arg Leu Lys Glu Glu Gly Asn Glu Gln Phe Lys Lys Gly Asp Tyr Ile
    130   135   140

Glu Ala Glu Ser Ser Tyr Ser Arg Ala Leu Glu Met Cys Pro Ser Cys
145   150   155   160

Phe Gln Lys Glu Arg Ser Ile Leu Phe Ser Asn Arg Ala Ala Ala Arg
            165   170   175

Met Lys Gln Asp Lys Lys Glu Met Ala Ile Asn Asp Cys Ser Lys Ala
        180   185   190

Ile Gln Leu Asn Pro Ser Tyr Ile Arg Ala Ile Leu Arg Arg Ala Glu
        195   200   205

Leu Tyr Glu Lys Thr Asp Lys Leu Asp Glu Ala Leu Glu Asp Tyr Lys
    210   215   220

Ser Ile Leu Glu Lys Asp Pro Ser Ile His Gln Ala Arg Glu Ala Cys
225   230   235   240

Met Arg Leu Pro Lys Gln Ile Glu Glu Arg Asn Glu Arg Leu Lys Glu
                245   250   255

```
Glu Met Leu Gly Lys Leu Lys Asp Leu Gly Asn Leu Val Leu Arg Pro
            260             265             270

Phe Gly Leu Ser Thr Glu Asn Phe Gln Ile Lys Gln Asp Ser Ser Thr
            275             280             285

Gly Ser Tyr Ser Ile Asn Phe Val Gln Asn Pro Asn Asn Asn Arg
        290             295             300
```

<210> 927
<211> 329
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 927

```
Xaa Gly Gly Cys Cys Ser Gly Pro Gly His Ser Lys Arg Arg Arg Gln
 1               5               10                  15

Ala Pro Gly Val Gly Ala Val Gly Gly Gly Ser Pro Glu Arg Glu Glu
            20              25                  30

Val Gly Ala Gly Tyr Asn Ser Glu Asp Glu Tyr Glu Ala Ala Ala Ala
        35              40                  45

Arg Ile Glu Ala Met Asp Pro Ala Thr Val Glu Gln Gln Glu His Trp
    50              55                  60

Phe Glu Lys Ala Leu Arg Asp Lys Lys Gly Phe Ile Ile Lys Gln Met
65              70              75                  80

Lys Glu Asp Gly Ala Cys Leu Phe Arg Ala Val Ala Asp Gln Val Tyr
            85              90                  95

Gly Asp Gln Asp Met His Glu Val Val Arg Lys His Cys Met Asp Tyr
            100             105             110

Leu Met Lys Asn Ala Asp Tyr Phe Ser Asn Tyr Val Thr Glu Asp Phe
        115             120             125

Thr Thr Tyr Ile Asn Arg Lys Arg Lys Asn Asn Cys His Gly Asn His
        130             135             140

Ile Glu Met Gln Ala Met Ala Glu Met Tyr Asn Arg Pro Val Glu Val
145             150             155             160
```

```
Tyr Gln Tyr Ser Thr Glu Pro Ile Asn Thr Phe His Gly Ile His Gln
            165             170             175

Asn Glu Asp Glu Pro Ile Arg Val Ser Tyr His Arg Asn Ile His Tyr
            180             185             190

Asn Ser Val Val Asn Pro Asn Lys Ala Thr Ile Gly Val Gly Leu Gly
            195             200             205

Leu Pro Ser Phe Lys Pro Gly Phe Ala Glu Gln Ser Leu Met Lys Asn
    210             215             220

Ala Ile Lys Thr Ser Glu Glu Ser Trp Ile Glu Gln Gln Met Leu Glu
225             230             235             240

Asp Lys Lys Arg Ala Thr Asp Trp Glu Ala Thr Asn Glu Ala Ile Glu
            245             250             255

Glu Gln Val Ala Arg Glu Ser Tyr Leu Gln Trp Leu Arg Asp Gln Glu
            260             265             270

Lys Gln Ala Arg Gln Val Arg Gly Pro Ser Gln Pro Arg Lys Ala Ser
    275             280             285

Ala Thr Cys Ser Ser Ala Thr Ala Ala Ala Ser Ser Gly Leu Glu Glu
    290             295             300

Trp Thr Ser Arg Ser Pro Arg Gln Glu Phe Gln Pro Arg His Leu Ser
305             310             315             320

Thr Leu Ser Cys Met Leu Asn Trp Ala
            325
```

<210> 928
<211> 436
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

880

```
<220>
<221> SITE
<222> (262)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 928
Lys Arg Phe Leu Arg Asn Phe Lys Leu Leu Thr Lys Arg Glu Phe Trp
 1               5                  10                  15

Lys Glu Asn Gln Glu His Tyr His Ile Val Gln Lys Phe Leu Ile Leu
             20                  25                  30

Gly Asp Ile Asp Gly Leu Met Asp Glu Phe Ser Lys Trp Leu Ser Lys
         35                  40                  45

Ser Arg Asn Asn Leu Pro Gly His Leu Leu Arg Phe Met Thr His Leu
     50                  55                  60

Ile Leu Phe Phe Arg Thr Leu Gly Leu Gln Thr Lys Glu Glu Val Ser
 65                  70                  75                  80

Ile Glu Val Leu Lys Thr Tyr Ile Gln Leu Leu Ile Arg Glu Lys His
             85                  90                  95

Thr Asn Leu Ile Ala Phe Tyr Thr Cys His Leu Pro Gln Asp Leu Ala
             100                 105                 110

Val Ala Gln Tyr Ala Leu Phe Leu Glu Ser Val Thr Glu Phe Glu Gln
         115                 120                 125

Arg His His Cys Leu Glu Leu Ala Lys Glu Ala Asp Leu Asp Val Ala
     130    .              135                 140

Thr Ile Thr Lys Thr Val Val Glu Asn Ile Arg Lys Lys Asp Asn Gly
145                 150                 155                 160

Glu Phe Ser His His Asp Leu Ala Pro Ala Leu Asp Thr Gly Thr Thr
             165                 170                 175

Glu Glu Asp Arg Leu Lys Ile Asp Val Ile Asp Trp Leu Val Phe Asp
             180                 185                 190

Pro Ala Gln Arg Ala Glu Ala Leu Lys Gln Gly Asn Ala Ile Met Arg
         195                 200                 205

Lys Xaa Leu Ala Ser Lys Lys His Xaa Ala Ala Lys Glu Val Phe Val
     210                 215                 220

Lys Ile Pro Gln Asp Ser Ile Ala Glu Ile Tyr Asn Gln Cys Glu Glu
225                 230                 235                 240
```

```
Gln Gly Met Glu Ser Pro Leu Pro Ala Glu Asp Asp Asn Ala Ile Arg
            245             250             255

Glu His Leu Cys Ile Xaa Ala Tyr Leu Glu Ala His Glu Thr Phe Asn
            260             265             270

Glu Trp Phe Lys His Met Asn Ser Val Pro Gln Lys Pro Ala Leu Ile
        275             280             285

Pro Gln Pro Thr Phe Thr Glu Lys Val Ala His Glu His Lys Glu Lys
    290             295             300

Lys Tyr Glu Met Asp Phe Gly Ile Trp Lys Gly His Leu Asp Ala Leu
305             310             315             320

Thr Ala Asp Val Lys Glu Lys Met Tyr Asn Val Leu Leu Phe Val Asp
            325             330             335

Gly Gly Trp Met Val Asp Val Arg Glu Asp Ala Lys Glu Asp His Glu
            340             345             350

Arg Thr His Gln Met Val Leu Leu Arg Lys Leu Cys Leu Pro Met Leu
        355             360             365

Cys Phe Leu Leu His Thr Ile Leu His Ser Thr Gly Gln Tyr Gln Glu
        370             375             380

Cys Leu Gln Leu Ala Asp Met Val Ser Ser Glu Arg His Lys Leu Tyr
385             390             395             400

Leu Val Phe Ser Lys Glu Glu Leu Arg Lys Leu Leu Gln Lys Leu Arg
            405             410             415

Glu Ser Ser Leu Met Leu Leu Asp Gln Gly Leu Asp Pro Leu Gly Tyr
            420             425             430

Glu Ile Gln Leu
        435
```

<210> 929
<211> 161
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 929
Asp Ala Asp Val Gln Phe Leu Ala Ser Val Leu Pro Pro Asp Thr Asp
 1   5   10   15

Pro Ala Phe Phe Glu His Leu Arg Ala Leu Asp Cys Ser Glu Val Thr
                20   25   30

Val Arg Ala Leu Pro Glu Gly Ser Leu Ala Phe Pro Gly Val Pro Leu
            35   40   45

Leu Gln Val Ser Gly Pro Leu Leu Val Val Gln Leu Leu Glu Thr Pro
        50   55   60

Leu Leu Cys Leu Val Ser Tyr Ala Ser Leu Val Ala Thr Asn Ala Ala
65   70   75   80

Arg Leu Arg Leu Ile Ala Gly Pro Glu Lys Arg Leu Leu Glu Met Gly
                85   90   95

Leu Arg Arg Ala Gln Gly Pro Asp Gly Gly Leu Thr Ala Ser Thr Tyr
            100   105   110

Ser Tyr Leu Gly Gly Phe Asp Ser Ser Ser Asn Val Leu Ala Gly Gln
        115   120   125

Leu Arg Gly Val Pro Val Ala Gly Thr Leu Ala His Ser Phe Val Thr
    130   135   140

Ser Phe Ser Gly Ser Glu Val Pro Leu Thr Arg Cys Trp Gly Xaa Ser
145   150   155   160

Leu

<210> 930
<211> 741
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (282)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 930
Leu Met Lys Ile Glu Ala Asn Xaa Asp His Met Gly Phe His Phe Thr
 1   5   10   15

Thr Gly Xaa Pro Ala Pro Ser Thr Glu Thr Glu Leu Asp Val Leu Leu
            20   25   30

Pro Thr Ala Thr Ser Leu Pro Ile Pro Arg Lys Ser Ala Thr Val Ile
        35   40   45

Pro Glu Ile Glu Gly Ile Lys Ala Glu Ala Lys Ala Leu Asp Asp Met
    50   55   60

Phe Glu Ser Ser Thr Leu Ser Asp Gly Gln Ala Ile Ala Asp Gln Ser
65   70   75   80

Glu Ile Ile Pro Thr Leu Gly Gln Phe Glu Arg Thr Gln Glu Glu Tyr
                85   90   95

Glu Asp Lys Lys His Ala Gly Pro Ser Phe Gln Pro Glu Phe Ser Ser
            100   105   110

Gly Ala Glu Glu Ala Leu Val Asp His Thr Pro Tyr Leu Ser Ile Ala
        115   120   125

Thr Thr His Leu Met Asp Gln Ser Val Thr Glu Val Pro Asp Val Met
    130   135   140

Glu Gly Ser Asn Pro Pro Tyr Tyr Thr Asp Thr Thr Leu Ala Val Ser
145   150   155   160

Thr Phe Ala Lys Leu Ser Ser Gln Thr Pro Ser Ser Pro Leu Thr Ile
            165   170   175

Tyr Ser Gly Ser Glu Ala Ser Gly His Thr Glu Ile Pro Gln Pro Ser
            180   185   190

Ala Leu Pro Gly Ile Asp Val Gly Ser Ser Val Met Ser Pro Gln Asp
        195   200   205

Ser Phe Lys Glu Ile His Val Asn Ile Glu Ala Thr Phe Lys Pro Ser
    210   215   220

Ser Glu Glu Tyr Leu His Ile Thr Glu Pro Pro Ser Leu Ser Pro Asp
225   230   235   240

884

Thr Lys Leu Glu Pro Ser Glu Asp Asp Gly Lys Pro Glu Leu Leu Glu
                  245   250   255

Glu Met Glu Ala Ser Pro Thr Glu Leu Ile Ala Val Glu Gly Thr Glu
                  260   265   270

Ile Leu Gln Asp Phe Gln Asn Lys Thr Xaa Gly Gln Val Ser Gly Glu
                  275   280   285

Ala Ile Lys Met Phe Pro Thr Ile Lys Thr Pro Glu Ala Gly Thr Val
        290   295   300

Ile Thr Thr Ala Asp Glu Ile Glu Leu Glu Gly Ala Thr Gln Trp Pro
305   310   315   320

His Ser Thr Ser Ala Ser Ala Thr Tyr Gly Val Glu Ala Gly Val Val
                  325   330   335

Pro Trp Leu Ser Pro Gln Thr Ser Glu Arg Pro Thr Leu Ser Ser Ser
                  340   345   350

Pro Glu Ile Asn Pro Glu Thr Gln Ala Ala Leu Ile Arg Gly Gln Asp
        355   360   365

Ser Thr Ile Ala Ala Ser Glu Gln Gln Val Ala Ala Arg Ile Leu Asp
        370   375   380

Ser Asn Asp Gln Ala Thr Val Asn Pro Val Glu Phe Asn Thr Glu Val
385   390   395   400

Ala Thr Pro Pro Phe Ser Leu Leu Glu Thr Ser Asn Glu Thr Asp Phe
                  405   410   415

Leu Ile Gly Ile Asn Glu Glu Ser Val Glu Gly Thr Ala Ile Tyr Leu
                  420   425   430

Pro Gly Pro Asp Arg Cys Lys Met Asn Pro Cys Leu Asn Gly Gly Thr
        435   440   445

Cys Tyr Pro Thr Glu Thr Ser Tyr Val Cys Thr Cys Val Pro Gly Tyr
        450   455   460

Ser Gly Asp Gln Cys Glu Leu Asp Phe Asp Glu Cys His Ser Asn Pro
465   470   475   480

Cys Arg Asn Gly Ala Thr Cys Val Asp Gly Phe Asn Thr Phe Arg Cys
                  485   490   495

Leu Cys Leu Pro Ser Tyr Val Gly Ala Leu Cys Glu Gln Asp Thr Glu
            500   505   510

```
Thr Cys Asp Tyr Gly Trp His Lys Phe Gln Gly Gln Cys Tyr Lys Tyr
    515                 520                 525

Phe Ala His Arg Arg Thr Trp Asp Ala Ala Glu Arg Glu Cys Arg Leu
    530                 535                 540

Gln Gly Ala His Leu Thr Ser Ile Leu Ser His Glu Glu Gln Met Phe
545                 550                 555                 560

Val Asn Arg Val Gly His Asp Tyr Gln Trp Ile Gly Leu Asn Asp Lys
                565                 570                 575

Met Phe Glu His Asp Phe Arg Trp Thr Asp Gly Ser Thr Leu Gln Tyr
                580                 585                 590

Glu Asn Trp Arg Pro Asn Gln Pro Asp Ser Phe Phe Ser Ala Gly Glu
                595                 600                 605

Asp Cys Val Val Ile Ile Trp His Glu Asn Gly Gln Trp Asn Asp Val
    610                 615                 620

Pro Cys Asn Tyr His Leu Thr Tyr Thr Cys Lys Lys Gly Thr Val Ala
625                 630                 635                 640

Cys Gly Gln Pro Pro Val Val Glu Asn Ala Lys Thr Phe Gly Lys Met
                645                 650                 655

Lys Pro Arg Tyr Glu Ile Asn Ser Leu Ile Arg Tyr His Cys Lys Asp
                660                 665                 670

Gly Phe Ile Gln Arg His Leu Pro Thr Ile Arg Cys Leu Gly Asn Gly
                675                 680                 685

Arg Trp Ala Ile Pro Lys Ile Thr Cys Met Asn Pro Ser Ala Tyr Gln
    690                 695                 700

Arg Thr Tyr Ser Met Lys Tyr Phe Lys Asn Ser Ser Ser Ala Lys Asp
705                 710                 715                 720

Asn Ser Ile Asn Thr Ser Lys His Asp His Arg Trp Ser Arg Arg Trp
                725                 730                 735

Gln Glu Ser Arg Arg
            740
```

```
<210> 931
<211> 209
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 931
Gly Lys Ala Gly Asp Gln Leu Val Pro Asp Asn Leu Lys Glu Thr Asp
 1               5                  10                  15


Lys Glu Lys Gly Asn Val Val Leu Lys Gly Glu Xaa Ser Ala Arg Met
            20                  25                  30


Lys Ile Pro Ser Asn Met Trp Val Glu Ala Trp Glu Thr Ala Lys Pro
            35                  40                  45


Ile Pro Ala Arg Arg Gln Arg Arg Leu Phe Asp Asp Thr Arg Glu Ala
        50                  55                  60


Glu Lys Val Leu His Tyr Leu Ala Ile Gln Lys Pro Ala Asp Leu Ala
65                  70                  75                  80


Arg His Leu Leu Pro Cys Val Ile His Ala Ala Val Leu Lys Val Lys
                85                  90                  95


Glu Glu Glu Ser Leu Glu Asn Ile Ser Ser Val Lys Lys Ile Ile Lys
                100                 105                 110


Gln Ile Ile Ser His Ser Ser Lys Val Leu His Phe Pro Asn Pro Glu
            115                 120                 125


Asp Lys Lys Leu Glu Glu Ile Ile His Gln Ile Thr Asn Val Glu Ala
        130                 135                 140


Leu Ile Ala Arg Ala Arg Ser Leu Lys Ala Lys Phe Gly Thr Glu Lys
145                 150                 155                 160


Cys Glu Gln Glu Glu Glu Lys Glu Asp Leu Glu Arg Phe Val Ser Cys
                165                 170                 175


Leu Leu Glu Gln Pro Glu Val Leu Val Thr Gly Ala Gly Arg Gly His
            180                 185                 190


Ala Gly Arg Ile Ile His Lys Leu Phe Val Asn Ala Gln Arg Cys Gln
            195                 200                 205

Leu
```

887

```
<210> 932
<211> 57
<212> PRT
<213> Homo sapiens

<400> 932
Leu Leu Glu Val Pro Glu Met Gly Leu Thr Phe Ile Lys Gln Ile Ala
1               5                   10                  15

Tyr Tyr Asp Leu Ala Ala Ala Thr Val Gln Leu His Ile Asn Ser Thr
            20                  25                  30

Asp Gln Thr Ile Cys Ile Trp His His Leu Leu Thr His Asp Met Arg
        35                  40                  45

Leu Phe Cys Ile Asn Cys Tyr Asp Gly
    50                  55



<210> 933
<211> 125
<212> PRT
<213> Homo sapiens

<400> 933
Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val Val Gln Gln
1               5                   10                  15

Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val Lys Ala Glu
            20                  25                  30

Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu Gln Ala Gln
        35                  40                  45

Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys Gly Gln Gly
    50                  55                  60

Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala Leu Gln Asn
65                  70                  75                  80

Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys Gln Leu Val
            85                  90                  95

Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu Lys Ser Ile
            100                 105                 110

Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
        115                 120                 125
```

888

```
<210> 934
<211> 306
<212> PRT
<213> Homo sapiens

<400> 934
Pro Thr Phe Ser Arg Ala Val Ala Thr Met Phe Ser Arg Ala Gly Val
 1               5                  10                  15

Ala Gly Leu Ser Ala Trp Thr Leu Gln Pro Gln Trp Ile Gln Val Arg
            20                  25                  30

Asn Met Ala Thr Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile Lys
        35                  40                  45

Asn Ile Gln Lys Ile Thr Lys Ser Met Lys Met Val Ala Ala Ala Lys
    50                  55                  60

Tyr Ala Arg Ala Glu Arg Glu Leu Lys Pro Ala Arg Ile Tyr Gly Leu
65                  70                  75                  80

Gly Ser Leu Ala Leu Tyr Glu Lys Ala Asp Ile Lys Gly Pro Glu Asp
                85                  90                  95

Lys Lys Lys His Leu Leu Ile Gly Val Ser Ser Asp Arg Gly Leu Cys
            100                 105                 110

Gly Ala Ile His Ser Ser Ile Ala Lys Gln Met Lys Ser Glu Val Ala
        115                 120                 125

Thr Leu Thr Ala Ala Gly Lys Glu Val Met Leu Val Gly Ile Gly Asp
    130                 135                 140

Lys Ile Arg Gly Ile Leu Tyr Arg Thr His Ser Asp Gln Phe Leu Val
145                 150                 155                 160

Ala Phe Lys Glu Val Gly Arg Lys Pro Pro Thr Phe Gly Asp Ala Ser
            165                 170                 175

Val Ile Ala Leu Glu Leu Leu Asn Ser Gly Tyr Glu Phe Asp Glu Gly
            180                 185                 190

Ser Ile Ile Phe Asn Lys Phe Arg Ser Val Ile Ser Tyr Lys Thr Glu
        195                 200                 205

Glu Lys Pro Ile Phe Ser Leu Asn Thr Val Ala Ser Ala Asp Ser Met
    210                 215                 220

Ser Ile Tyr Asp Asp Ile Asp Ala Asp Val Leu Gln Asn Tyr Gln Glu
225                 230                 235                 240
```

```
        Tyr Asn Leu Ala Asn Ile Ile Tyr Tyr Ser Leu Lys Glu Ser Thr Thr
                        245             250             255

        Ser Glu Gln Ser Ala Arg Met Thr Ala Met Asp Asn Ala Ser Lys Asn
                        260             265             270

        Ala Ser Glu Met Ile Asp Lys Leu Thr Leu Thr Phe Asn Arg Thr Arg
                        275             280             285

        Gln Ala Val Ile Thr Lys Glu Leu Ile Glu Ile Ile Ser Gly Ala Ala
                290             295             300

        Ala Leu
        305
```

```
<210> 935
<211> 135
<212> PRT
<213> Homo sapiens

<400> 935
        Gly Ala Leu Cys Ala Ala Ser Val Pro Arg Cys Val Trp Ser Ser Ala
         1               5              10              15

        Gly Val Val Ala Leu Phe Glu Glu His Cys Ala Pro Leu Val Trp Val
                        20              25              30

        Tyr Thr Tyr Glu Cys Cys His Tyr Met Cys Ser Ala Leu Leu Ser Leu
                    35              40              45

        Ser Cys Pro Cys Pro Ala Pro Ser Glu Arg Ala Ala Gly Leu Cys Cys
                50              55              60

        Arg Leu Val Val Pro Cys His Lys Gly Met Pro Arg Leu Thr Asp Leu
        65              70              75              80

        Ser Val Lys Thr Lys Asp Val Trp Glu Ile Pro Arg Glu Ser Leu Gln
                        85              90              95

        Leu Ile Lys Arg Leu Gly Asn Gly Gln Phe Gly Glu Val Trp Met Gly
                        100             105             110

        Met Leu Arg Leu Asn Tyr Ser Leu Ile Ser Phe Pro Val Trp Lys Ile
                115             120             125

        Pro Asn Thr Lys Asp Gly Arg
                130             135
```

890

<210> 936
<211> 284
<212> PRT
<213> Homo sapiens

<400> 936
Leu Ser Gly Thr Thr Tyr Ala Arg Ala Cys Arg Ser Gln Cys Ala Ser
 1   5   10   15

Ala Ala Gly Gly Cys Thr Gly Gly Ala Gly Gly Gly Gly Gly Gly Gly
         20   25   30

Gly Gly Trp Gly Gly Ala Gly Gly Lys Cys Cys Asp Ala Val Pro Gly
         35   40   45

Arg Gly Arg Arg Val Glu Ala Glu Tyr Gln Phe Pro Ser Gly Lys Ala
     50   55   60

Ala Met Ala Ile Phe Ser Val Tyr Val Val Asn Lys Ala Gly Gly Leu
 65   70   75   80

Ile Tyr Gln Leu Asp Ser Tyr Ala Pro Arg Ala Glu Ala Glu Lys Thr
             85   90   95

Phe Ser Tyr Pro Leu Asp Leu Leu Leu Lys Leu His Asp Glu Arg Val
             100   105   110

Leu Val Ala Phe Gly Gln Arg Asp Gly Ile Arg Val Gly His Ala Val
         115   120   125

Leu Ala Ile Asn Gly Met Asp Val Asn Gly Arg Tyr Thr Ala Asp Gly
     130   135   140

Lys Glu Val Leu Glu Tyr Leu Gly Asn Pro Ala Asn Tyr Pro Val Ser
145   150   155   160

Ile Arg Phe Gly Arg Pro Arg Leu Thr Ser Asn Glu Lys Leu Met Leu
             165   170   175

Ala Ser Met Phe His Ser Leu Phe Ala Ile Gly Ser Gln Leu Ser Pro
             180   185   190

Glu Gln Gly Ser Ser Gly Ile Glu Met Leu Glu Thr Asp Thr Phe Lys
         195   200   205

Leu His Cys Tyr Gln Thr Leu Thr Gly Ile Lys Phe Val Val Leu Ala
     210   215   220

Asp Pro Arg Gln Ala Gly Ile Asp Ser Leu Leu Arg Lys Ile Tyr Glu

891

```
            225                 230                    235                    240
```

Ile Tyr Ser Asp Phe Ala Leu Lys Asn Pro Phe Tyr Ser Leu Glu Met
            245   250   255

Pro Ile Arg Cys Glu Leu Phe Asp Gln Asn Leu Lys Leu Ala Leu Glu
            260   265   270

Val Ala Glu Lys Ala Gly Thr Phe Gly Pro Gly Ser
            275   280

<210> 937
<211> 338
<212> PRT
<213> Homo sapiens

<400> 937
Pro Val Ser Pro Leu His Arg Glu Glu Gly Asp Lys Trp Gly Glu Val
   1   5   10   15

Trp Cys Gln Met Gly Trp Arg Arg Lys Arg Val Pro Gln Arg Gly Arg
               20   25   30

Lys Ala Pro Pro Pro Gln Leu His Gly Asn Ile Asn Asn Leu Tyr Phe
            35   40   45

Pro Ile Arg Trp Arg Asp Arg Leu His Trp Asp Ser Pro Asn Pro Ala
      50   55   60

Ala Glu Cys Gln Arg Pro Arg Ser Thr Leu Val Ser Arg Lys Pro Gly
 65   70   75   80

Pro Gly Arg Ile Thr Trp Asp Glu Leu Ala Ala Ser Gly Leu Pro Ser
               85   90   95

Cys Asp Ala Ala Val Asn Leu Ala Gly Glu Asn Ile Leu Asn Pro Leu
            100   105   110

Arg Arg Trp Asn Glu Thr Phe Gln Lys Glu Val Leu Gly Ser Arg Leu
            115   120   125

Glu Thr Thr Gln Leu Leu Ala Lys Ala Ile Thr Lys Ala Pro Gln Pro
      130   135   140

Pro Lys Ala Trp Val Leu Val Thr Gly Val Ala Tyr Tyr Gln Pro Ser
145   150   155   160

Leu Thr Ala Glu Tyr Asp Glu Asp Ser Pro Gly Gly Asp Phe Asp Phe
               165   170   175

```
Phe Ser Asn Leu Val Thr Lys Trp Glu Ala Ala Ala Arg Leu Pro Gly
        180             185             190

Asp Ser Thr Arg Gln Val Val Val Arg Ser Gly Val Val Leu Gly Arg
        195             200             205

Gly Gly Gly Ala Met Gly His Met Leu Leu Pro Phe Arg Leu Gly Leu
    210             215             220

Gly Gly Pro Ile Gly Ser Gly His Gln Phe Phe Pro Trp Ile His Ile
225             230             235             240

Gly Asp Leu Ala Gly Ile Leu Thr His Ala Leu Glu Ala Asn His Val
            245             250             255

His Gly Val Leu Asn Gly Val Ala Pro Ser Ser Ala Thr Asn Ala Glu
        260             265             270

Phe Ala Gln Thr Phe Gly Ala Ala Leu Gly Arg Arg Ala Phe Ile Pro
        275             280             285

Leu Pro Ser Ala Val Val Gln Ala Val Phe Gly Arg Gln Arg Ala Ile
    290             295             300

Met Leu Leu Glu Gly Gln Lys Val Ile Pro Arg Arg Thr Leu Ala Thr
305             310             315             320

Gly Tyr Gln Tyr Ser Phe Pro Glu Leu Gly Ala Ala Leu Lys Glu Ile
            325             330             335

Val Ala
```

```
<210> 938
<211> 321
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (238)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (263)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (267)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (268)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 938
Cys Gln Glu Trp Val Pro Asp Arg Glu Ser Tyr Val Ser His Met Lys
 1   5   10   15

Lys Ser His Gly Arg Thr Leu Lys Arg Tyr Pro Cys Arg Gln Xaa Glu
             20   25   30

Gln Ser Phe His Thr Pro Asn Ser Leu Arg Lys His Ile Arg Asn Asn
         35   40   45

His Asp Thr Val Lys Lys Phe Tyr Thr Cys Gly Tyr Cys Thr Glu Asp
     50   55   60

Ser Pro Ser Phe Pro Arg Pro Ser Leu Leu Glu Ser His Ile Ser Leu
 65   70   75   80

Met His Gly Ile Arg Asn Pro Asp Leu Ser Gln Thr Ser Lys Val Lys
             85   90   95

Pro Pro Gly Gly His Ser Pro Gln Val Asn His Leu Lys Arg Pro Val
             100   105   110

Ser Gly Val Gly Asp Ala Pro Gly Thr Ser Asn Gly Ala Thr Val Ser
        115   120   125

Ser Thr Lys Arg His Lys Ser Leu Phe Gln Cys Ala Lys Cys Ser Phe
        130   135   140

Ala Thr Asp Ser Gly Leu Glu Phe Gln Ser His Ile Pro Gln His Gln
145   150   155   160

Val Gly Gln Xaa His Ser Pro Met Ser Pro Leu Trp Phe Val Leu His
                165   170   175

Leu Cys Gln Leu Pro Gln Pro Pro Leu His Cys Pro Gln Gly Glu
            180   185   190

Arg Pro Gly Gly Gly Gly Arg Gly Gly Gly Thr Glu Met Ala
        195   200   205

Val Glu Val Ala Glu Gln Arg Arg Ala Pro Gly Xaa Xaa Cys Pro Trp
    210   215   220

Arg Leu Glu Arg Met Asp Trp Lys Asn Val Pro Val Ser Xaa Cys Gln
225   230   235   240

Leu Thr Gln Arg Arg Gly Asp Cys Trp Ala Arg Pro Leu Arg Thr Met
                245   250   255

Val Ala Thr Met Ile Thr Xaa Asn His Arg Xaa Xaa Arg Thr Arg Thr
                260   265   270

Ala Thr His Cys Pro Leu Arg Cys Asp Arg Arg Leu Cys Ser Val His
            275   280   285

Gly Gln Gly Trp Cys Arg Ser Val Phe His Leu Pro Cys Gly Pro Trp
    290   295   300

Lys Ile Lys Gly Ser Ala Pro Ser Val Ser Val Thr Gly Cys Thr Leu
305   310   315   320

Glu

<210> 939
<211> 151
<212> PRT
<213> Homo sapiens

<220>

```
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 939
Ala Ala Ser Xaa Gly Glu Gln Arg Glu Arg Ala Arg Leu Gln Thr Pro
 1               5                   10                  15


Thr Arg Pro His Ser Thr Ser Ala Arg Pro Arg Arg Arg Gln Val Gln
                20                  25                  30


Leu Leu Gln Leu Cys Gly Cys Ala Ala Lys Gly Xaa Ala His Gly Leu
            35                  40                  45


Asp Val Thr Ser Pro Thr Val Ser Trp Leu Ala Cys Pro Cys Ala Arg
        50                  55                  60


Pro Ser Xaa Ser Arg Gln Xaa Leu Gly Thr Ser Glu Glu Glu Pro Gly
65              70                  75                  80


Xaa Asn Gly Lys Gly Gly Ile Gly Val His His Ser Leu Leu Leu Trp
                85                  90                  95


Ser Ser Thr Gly Gly Thr Xaa Met Glu Val Ser Cys Leu Thr Ser Leu
                100                 105                 110
```

His Cys Thr Gly Pro Gly Met Pro Ile His Pro Leu Ala Glu Asp Thr
        115   120   125

His Gln Val Ile Cys Glu Glu Thr Leu Gly Ser His His Leu Lys Ala
        130   135   140

Arg Gly Ser Pro Ser His Arg
145   150

<210> 940
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 940
Arg Cys Gly Trp Ser Ser Arg Ser Arg Arg Ser Arg Cys Ala Arg Arg
  1   5   10   15

Cys Pro Pro Ser Pro Cys Pro Thr Pro Arg His Val Pro Ser Ser Arg
            20   25   30

His Pro Glu Val Cys Gly Leu Arg Thr Asn Ser His Arg Cys Leu Phe
        35   40   45

Arg Pro Gln Leu Gln Ala Met Pro Ala Ala Gly Gly Val Leu Tyr Gln
    50   55   60

Pro Ser Gly Pro Ala Ser Phe Pro Ser Thr Phe Ser Pro Ala Gly Ser
65   70   75   80

Val Glu Gly Ser Pro Met His Gly Val Tyr Met Ser Gln Pro Val Pro
            85   90   .   95

Ala Ala Gly Pro Tyr Pro Xaa
            100

<210> 941
<211> 136
<212> PRT
<213> Homo sapiens

<220>

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<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 941
Thr Ala Gly Arg Ser Asp Val Leu Pro Val Ala Gly Gly Glu Val Arg
 1               5                   10                  15

Ala Leu Gln Glu Gly Gly Cys Gly Asp Lys Met Lys Ile Phe Val Gly
            20                  25                  30

Asn Val Asp Gly Ala Asp Thr Thr Pro Glu Glu Leu Ala Ala Leu Phe
            35                  40                  45

Ala Pro Tyr Gly Thr Val Met Ser Cys Ala Val Met Lys Gln Phe Ala
        50                  55                  60

Phe Val His Met Arg Glu Asn Ala Gly Ala Leu Arg Ala Ile Glu Ala
 65                  70                  75                  80

Leu His Gly His Glu Leu Arg Pro Gly Arg Ala Leu Val Val Glu Met
                85                  90                  95

Ser Arg Pro Arg Pro Leu Asn Thr Trp Lys Ile Phe Val Gly Asn Val
            100                 105                 110

Ser Ala Ala Cys Thr Ser Gln Glu Leu Arg Xaa Ser Ser Ser Ala Ala
            115                 120                 125

Asp Ala Ser Ser Ser Val Thr Trp
        130                 135


<210> 942
<211> 61
<212> PRT
<213> Homo sapiens

<400> 942
Ile Met Lys Glu Ser Ser Ser Val Leu Ala Lys Cys Ser Ser Ile Ala
 1               5                   10                  15

Gly Tyr Ile Gln Trp Ser Ser Ile Asn Ser Tyr Leu Ser Gly Leu Asn
            20                  25                  30

Gln Asn Cys Val Ser Leu Asn Ser Tyr His Thr Glu Gly Ala Ser Gln
            35                  40                  45

Ile Thr Ile Phe Leu Ser Ala Val Phe Leu Gln Lys Ser
        50                  55                  60
```

<210> 943
<211> 580
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 943
Gly Ala Gln Ala Gln Ala Ser Ala Arg Pro Leu Gln Ala Phe Gly Ala
 1   5   10   15

Arg Ala Arg Leu Gly Tyr Gly Pro Gly Arg Arg Arg Pro Pro Ser Ala
            20   25   30

Arg Cys Leu Ser Gly Thr Ala Asn Arg Arg Glu Arg Arg Arg Val Gly
            35   40   45

Leu Ser Ala Xaa Leu Gly Ala Gly Ala His Ala Arg Ala Pro Pro Gln
        50   55   60

Ala Gly Ala Met Ala Ser Gly Ser Xaa Ala Glu Cys Leu Gln Gln Glu
65   70   75   80

Thr Thr Cys Pro Val Cys Leu Gln Tyr Phe Ala Glu Pro Met Met Leu
                85   90   95

Asp Cys Gly His Asn Ile Cys Cys Ala Cys Leu Ala Arg Cys Trp Gly
                100   105   110

Thr Ala Glu Thr Asn Val Ser Cys Pro Gln Cys Arg Glu Thr Phe Pro
            115   120   125

Gln Arg His Met Arg Pro Asn Arg His Leu Ala Asn Val Thr Gln Leu
        130   135   140

Val Lys Gln Leu Arg Thr Glu Arg Pro Ser Gly Pro Gly Gly Glu Met
145   150   155   160

Gly Val Cys Glu Lys His Arg Glu Pro Leu Lys Leu Tyr Cys Glu Glu
                165   170   175

```
Asp Gln Met Pro Ile Cys Val Val Cys Asp Arg Ser Arg Glu His Arg
            180             185                 190

Gly His Ser Val Leu Pro Leu Glu Glu Ala Val Glu Gly Phe Lys Glu
        195             200                 205

Gln Ile Gln Asn Gln Leu Asp His Leu Lys Arg Val Lys Asp Leu Lys
    210             215                 220

Lys Arg Arg Arg Ala Gln Gly Glu Gln Ala Arg Ala Glu Leu Leu Ser
225             230                 235                 240

Leu Thr Gln Met Glu Arg Glu Lys Ile Val Trp Glu Phe Glu Gln Leu
            245             250                 255

Tyr His Ser Leu Lys Glu His Glu Tyr Arg Leu Leu Ala Arg Leu Glu
            260             265                 270

Glu Leu Asp Leu Ala Ile Tyr Asn Ser Ile Asn Gly Ala Ile Thr Gln
        275             280                 285

Phe Ser Cys Asn Ile Ser His Leu Ser Ser Leu Ile Ala Gln Leu Glu
    290             295                 300

Glu Lys Gln Gln Gln Pro Thr Arg Glu Leu Leu Gln Asp Ile Gly Asp
305             310                 315                 320

Thr Leu Ser Arg Ala Glu Arg Ile Arg Ile Pro Glu Pro Trp Ile Thr
            325             330                 335

Pro Pro Asp Leu Gln Glu Lys Ile His Ile Phe Ala Gln Lys Cys Leu
            340             345                 350

Phe Leu Thr Glu Ser Leu Lys Gln Phe Thr Glu Lys Met Gln Ser Asp
        355             360                 365

Met Glu Lys Ile Gln Glu Leu Arg Glu Ala Gln Leu Tyr Ser Val Asp
    370             375                 380

Val Thr Leu Asp Pro Asp Thr Ala Tyr Pro Ser Leu Ile Leu Ser Asp
385             390                 395                 400

Asn Leu Arg Gln Val Arg Tyr Ser Tyr Leu Gln Gln Asp Leu Pro Asp
            405             410                 415

Asn Pro Glu Arg Phe Asn Leu Phe Pro Cys Val Leu Gly Ser Pro Cys
            420             425                 430

Phe Ile Ala Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Lys Ala
        435             440                 445
```

900

```
Lys Trp Thr Ile Gly Val Cys Glu Asp Ser Val Cys Arg Lys Gly Gly
    450             455             460

Val Thr Ser Ala Pro Gln Asn Gly Phe Trp Ala Val Ser Leu Trp Tyr
465             470             475             480

Gly Lys Glu Tyr Trp Ala Leu Thr Ser Pro Met Thr Ala Leu Pro Leu
            485             490             495

Arg Thr Pro Leu Gln Arg Val Gly Ile Phe Leu Asp Tyr Asp Ala Gly
            500             505             510

Glu Val Ser Phe Tyr Asn Val Thr Glu Arg Cys His Thr Phe Thr Phe
        515             520             525

Ser His Ala Thr Phe Cys Gly Pro Val Arg Pro Tyr Phe Ser Leu Ser
    530             535             540

Tyr Ser Gly Gly Lys Ser Ala Ala Pro Leu Ile Ile Cys Pro Met Ser
545             550             555             560

Gly Ile Asp Gly Phe Ser Gly His Val Gly Asn His Gly His Ser Met
            565             570             575

Glu Thr Ser Pro
            580
```

```
<210> 944
<211> 437
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (317)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 944
```